



## King County

Department of Natural Resources and Parks  
Wastewater Treatment Division

### Comprehensive Planning & Technical Resources Group

King Street Center, KSC-NR-0512  
201 South Jackson Street  
Seattle, WA 98104-3855

July 1, 2007

Mark Henley  
Dept. of Ecology – NWRO  
3190-160<sup>th</sup> Ave SE  
Bellevue, WA 98008-5452

RE: King County CSO Public Notification Feasibility Study

Dear Mr. Henley:

Please find attached our Final Feasibility Study. It documents our review of our Public Notification Program, investigation into the Feasibility of implementing web-based real-time notification, and the associated public involvement process. We are currently testing a promising web-based real-time notification system, described in the report, but believe we need more wet season experience with it to verify its accuracy and usefulness for the public. We will keep you informed of this. With this review the County's updated notification program includes:

- Outreach and education through an integrated program addressing CSO control planning and updates, control projects, public notification, special projects (e.g. sediment remediations and technology pilots), and general wastewater management and water quality topics.
  - Workshops and open-houses
  - Brochures and mailings
  - Briefings and meetings
  - Treatment Plant tours
- Communication of status and projects through an informative County CSO website containing data, reports, links to related information and contacts.
- Maintenance of signage at all publicly accessible CSO sites
- Continued funding of the Seattle-King County Health Department to provide:
  - A website covering CSO-related public health information
  - Brochures on CSO risk and precautions
  - Business and group CSO education visits, and
  - A CSO information phone line.
- A web-based real-time CSO notification site if determined to be feasible.

Please let us know if you have questions or need additional information. I can be reached at (206)684-1246.

Yours truly,

Karen Huber  
King County CSO Control Manager

Cc: Betsy Cooper, King County NPDES Administration

# Final Public Notification Feasibility Study

## ***Feasibility Study Purpose***

As a component of the 2005 modification of the County's National Pollutant Discharge Elimination System (NPDES) permit for the West Point Treatment Plant Ecology required the development of a Combined Sewer Overflow (CSO) Public Notification Feasibility Study. A draft was to be submitted by July 1, 2006, with a Final Feasibility Study due July 1, 2007. The City of Seattle was given a similar requirement in their CSO NPDES permit, but with later due dates in recognition that it will take longer to build the infrastructure for such reporting. These requirements for Feasibility Studies were in response to comments made by the organization People for Puget Sound on the draft modification of the West Point NPDES permit in 2005.

The intent of the Feasibility Study was to evaluate any needed improvements to the County's public notification program, in existence since 1999. Specifically the study was to survey methods to provide more immediate overflow notice to the public, including evaluation of an option to provide web-based notification, and to implement a public involvement effort to support decisions on the notification approach.

King County seeks to provide an integrated public information and involvement process. Separate efforts for CSO control projects, the update to the CSO control plan, technology pilots and public notification would not serve the public well. These efforts are being blended with on-going public involvement efforts about wastewater management and water quality to provide context and to show how these efforts work together for the same goal. Public contacts may emphasize one aspect of the program over another, but will always be presented as part of the whole. Through this approach stakeholders are being solicited for ideas about the most effective ways to provide notice about CSOs, and so can shape the notification methods. This process is described in more detail in later sections of this report.

## ***Background and Current Program***

In 1994 the Environmental Protection Agency (EPA) issued their CSO Control Policy. It called for the implementation of Nine Minimum Controls (9MC) to achieve quick reductions in the impacts of CSO to public health and the environment, and for the development of Long Term Control Plans (LTCP) to implement more complex controls over time. One of the 9MC was the development of a Public Notification program. In their *Guidance for Nine Minimum Controls (May 1995)* EPA described the intent of public notification to be "to inform the public of the location of CSO outfalls, the actual occurrences of CSOs, the possible health and environmental effects of CSOs, and the recreational or commercial activities curtailed as a result of CSOs". Noting that the most appropriate mechanism for public notification would likely vary with local circumstances, EPA listed the following examples of notification measures for consideration:

- Posting at Affected Use Areas
- Posting at Selected Public Places
- Posting at CSO Outfalls
- Notices in Newspapers or on Radio and TV News Programs
- Letter Notification to Affected Residents
- Telephone Hot Line

In 1999 King County, Seattle Public Utilities and the Seattle – King County Health Department collaborated to develop a public notification program that would meet EPA's 9MC requirement that had been put into the West Point NPDES permit by the Department of Ecology (Ecology). This is described in *Combined Sewer Overflow Public Notification Program Final Report (Adolfson Associates for King County, Seattle and Sea-KC Health Department, 1999)*. Ecology approved the program.

In the development of the 1999 notification program other CSO cities' notification programs were reviewed. Approaches considered by the County included a range from such things as web-based real time information, flashing warning lights at outfalls, and email alert systems, to publication of overflow information in newspapers. A goal of the county was to provide information that enabled the public to make informed choices about recreational water use, and to help them understand the CSO issue in a larger environmental context. It was important that the methods not create the impression of a new or increased risk, when in fact the risk has been steadily decreasing over time. A web-based real time information system ranked high in value, but was found to not be feasible with the CATAD (SCADA) collection system control hardware and software then in place. It was agreed that this would be revisited as technology improved. Approaches such as warning lights and email alerts were rejected due to the same technical constraints, but were also seen as creating an inaccurate impression of new or increased risk. Newspaper announcements of overflows were viewed as too slow.

The selected 1999 program provided notification of the presence of CSOs and precautions to avoid health risk to the public. It included the following elements.

## Signage

All overflow points accessible to the public were posted with signs warning of the overflow hazard,



identifying the CSO by a reference number, and providing a telephone number to obtain additional information from the Health Department. An example sign is shown here. Signs must be monitored for vandalism during routine visits to the facilities and during a more comprehensive inspection done annually. Four to five signs must be replaced per year.

## Seattle-King County Health Department Education

A brochure and website providing CSO precaution information were developed by the Health Department. The website link is:

<http://www.metrokc.gov/health/hazard/cso.htm>

**Figure 1. CSO Warning Sign**

Organizations such as diving schools, wind surfing clubs and boating groups are regularly visited by the Health Department to educate them about CSOs and provide brochures for their clients.

An information hot-line was created by the Health Department, and funded by King County and the City of Seattle. After the first year the hotline was changed to a message recorder due to infrequent calls. Most calls were found to be unrelated to CSOs. The message recorder is now checked once each business day and inquiries are responded to promptly.

## King County CSO Website

The County provides a range of information on its CSO Control website <http://dnr.metrokc.gov/WTDCSO/>. This website currently averages 205 visitors per month. The website has the following contents:

**Introduction:**

What are CSOs?  
Why are there CSOs?  
Where are King County CSOs?

**Controlling CSOs**

How do we control CSOs?  
Transferring flow  
Increasing capacity  
Constructing local CSO treatment facilities  
Reducing stormwater entering the system

**How much have CSOs been reduced?**

**What are CSO Control costs?**

**The CSO Program:**

CSO Projects  
Notification and Posting  
Sediment Management  
Water Quality Assessment  
Annual Reports  
Program Updates  
Regional Wastewater Services Plan

**Being a Good Neighbor**

**Program Library**

**Glossary of Terms**

Screen shots of the website are provided as Appendix A. Many positive comments about the website have been received from the public and other agencies.

We believe that current notification and public involvement programs provide substantial information on the location of CSOs and their potential public health and environmental impacts. In addition, information is provided that enables the public to monitor the County's control projects, progress toward control and cost-effective use of public funds. It has been the recommendation of the Seattle-King County Public Health Department and the County CSO Control Program that the public should avoid contact with waterbodies near both CSO and stormwater outfalls during, and for 48 hours after, heavy rainfall. But it is recognized that several water uses do occur during wet weather, including recreation such as scuba diving and wind-surfing, as well as tribal net fishing. As a result, the County has focused this study on the feasibility of providing more real-time overflow information for the public's use in making water contact decisions.

***Other US CSO Community Notification Programs - 2006***

The most recent EPA report to Congress listed all identified CSO communities – nearly 800. For this Feasibility Study an internet search was done for all communities on the West Coast, and all County-comparable CSO communities – those having 30 or more CSOs. These totaled 78, or about 10% of US CSO communities. A table of information on those community notification programs is provided in Appendix B. This has not been updated from the December 2006 draft report.

Of these communities, 45 had websites containing any CSO information, with eight posting their compliance/performance reports. Nine permanently posted their CSO outfalls with warning signs, while three more posted temporary signs after overflows. Seven sent overflow email alerts to people signing up for the listserve. Two agencies used an automated call to send out alerts to those requesting them, while five maintained an information phone line the public could call. Two communities utilized press releases to announce overflows. One agency is readying to install warning lights on the impacted river segments. Five used “real-time” map-based alerts on their websites, two of which were waterbody-specific rather than CSO-specific. Reporting sanitary sewer overflows may have been a primary focus of a couple of these sites, with reporting CSO secondary. These five are:

Metropolitan Water Reclamation District of Chicago  
Milwaukee Metropolitan Sewerage District  
San Francisco Utilities Commission  
Spokane, City of  
Toledo Waterways Initiative

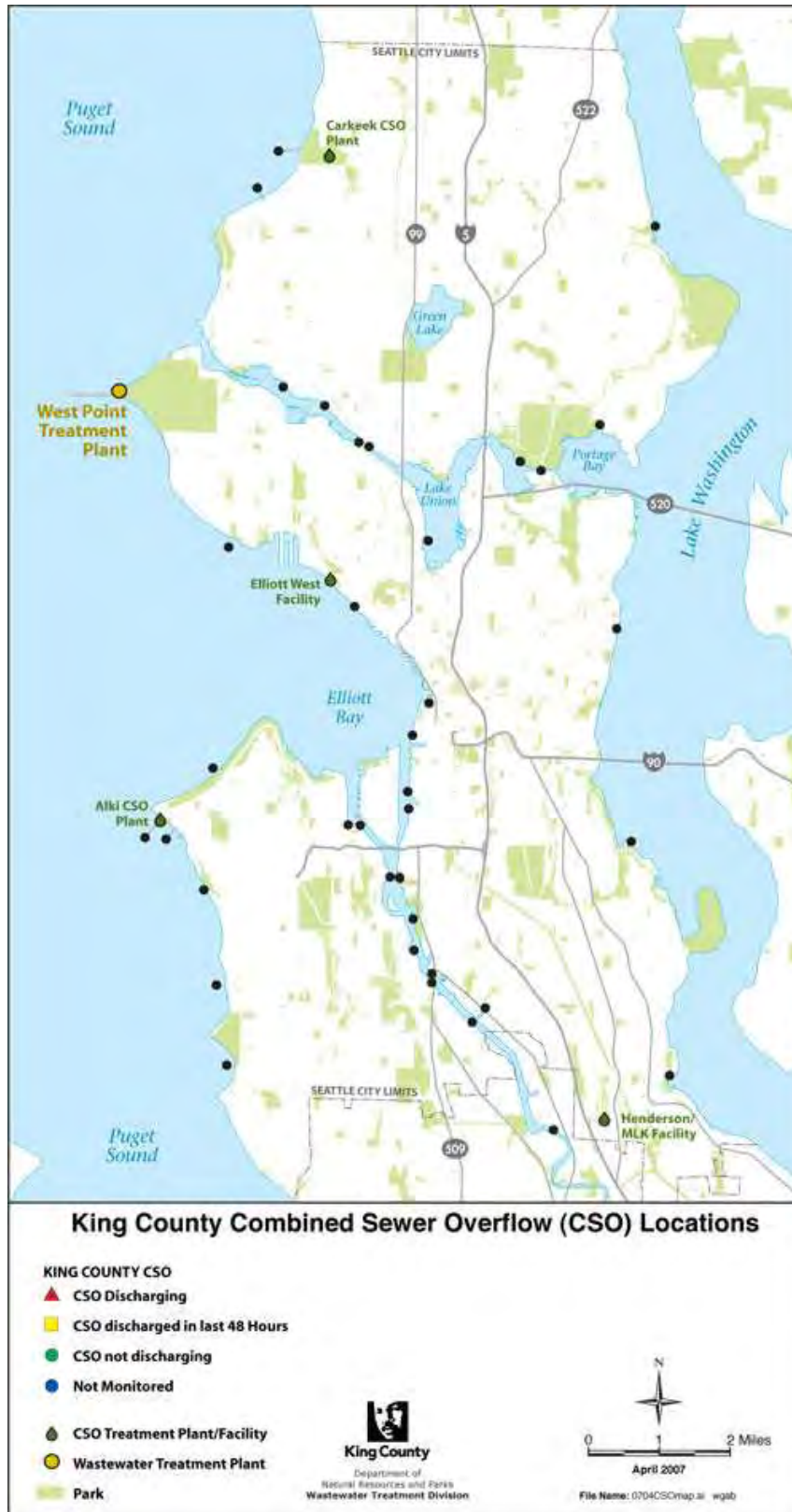
Screen shots of those websites are provided in Appendix B. Four communities provided “real-time” text alerts on their web pages. Most agencies indicated that the information was only available from CSO facilities equipped to telemeter monitoring information. Additionally, these “real-time” alerts had varying lag times between the overflow event and the actual notice on the website.

### ***Real-Time Notification Feasibility***

King County looked at the technical feasibility of providing overflow status on a “real time” basis and is currently testing the most promising method. The system provides overflow status that is based on our new Supervisory Control and Data Acquisition (SCADA) system and software called Pi Process Book. Pi Process Book creates a scalable vector graphics (SVG) file system map showing overflow status at a moment in time that is then converted to a JPEG file and uploaded to our web server using Microsoft SharePoint Web Portal software. This process is repeated every minute providing a snapshot of overflow status. This is described in more detail in the July 2006 Draft Feasibility Study.

Prototype maps for this system were developed after meeting with the stakeholder environmental groups and our notification program partners - Seattle-King County Public Health Department and Seattle Public Utilities. The maps include a clickable whole system view, which, when areas are clicked, takes the user to one of three zoomed-in maps covering the northern system, Alki and southern CSOs. The maps now show major roadways and parks to better identify locations. These are shown in Figures 2 through 5.

Four levels of notification are being used. A red site locator on the map indicates an overflow is currently in progress, a yellow site locator indicates an overflow has occurred within the last 48 hours, a green site locator indicates no overflow activity in more than 48 hrs, and a blue site locator indicates that telemetered (broadcast over phone lines or wireless networks) or “real-time” information for that site is not available. Sites without telemetered data are monitored with portable flow meters that are manually downloaded every two to three weeks. Only six County CSOs are monitored by portable meters, while two locations supplement SCADA with portable data – these are smaller CSOs that are not controlled by the SCADA system. The period of 48 hours of caution has been chosen based upon the findings of the County’s 1998 *CSO Water Quality Assessment of the Duwamish River and Elliott Bay*. This study found that the bacteria levels following a CSO event could remain high enough to present an exposure health risk for 24 to 48 hours at some locations. This is considered a conservatively protective notification.



Figures 2. Proposed System Map



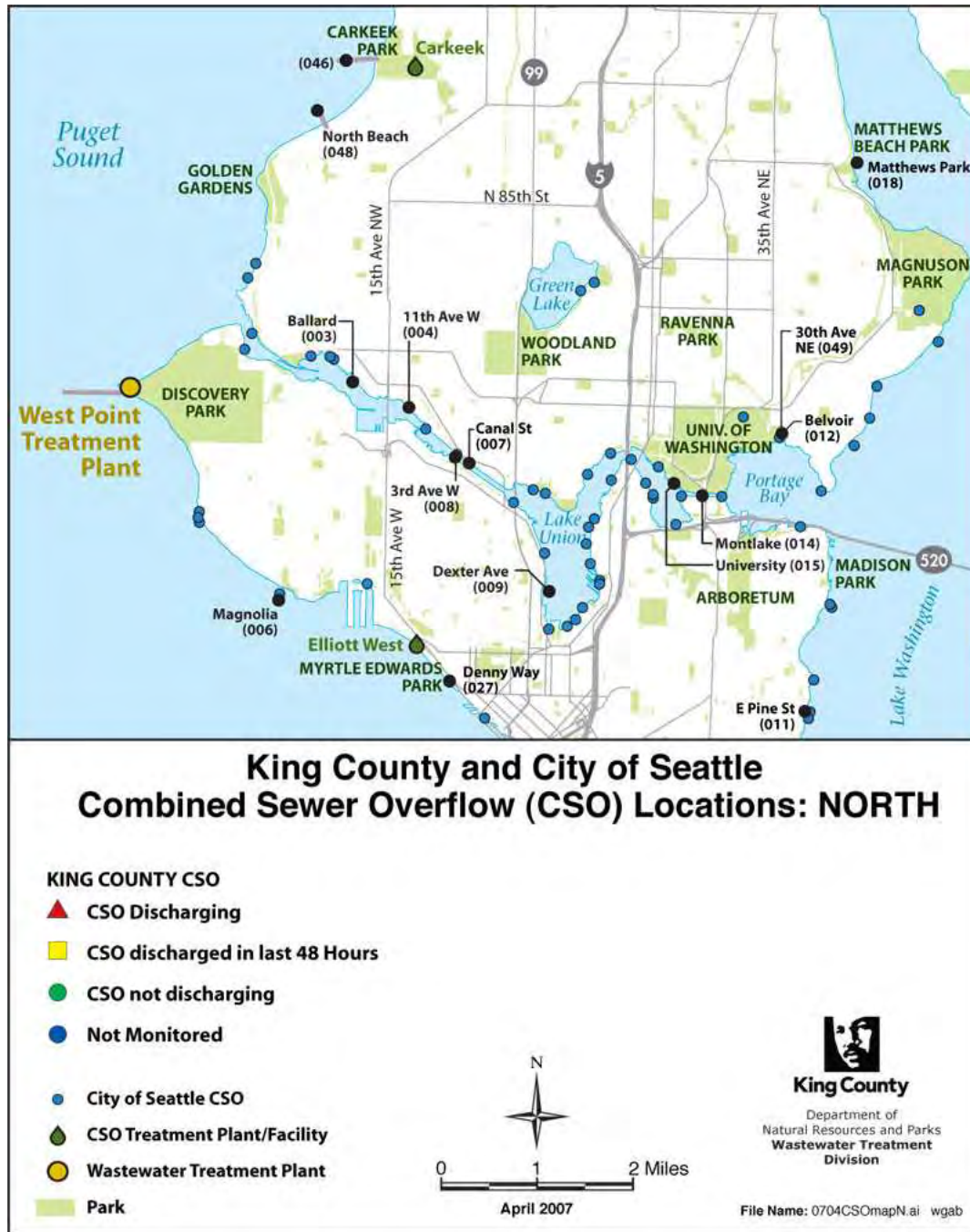


Figure 3. Proposed Northern CSO Status Map

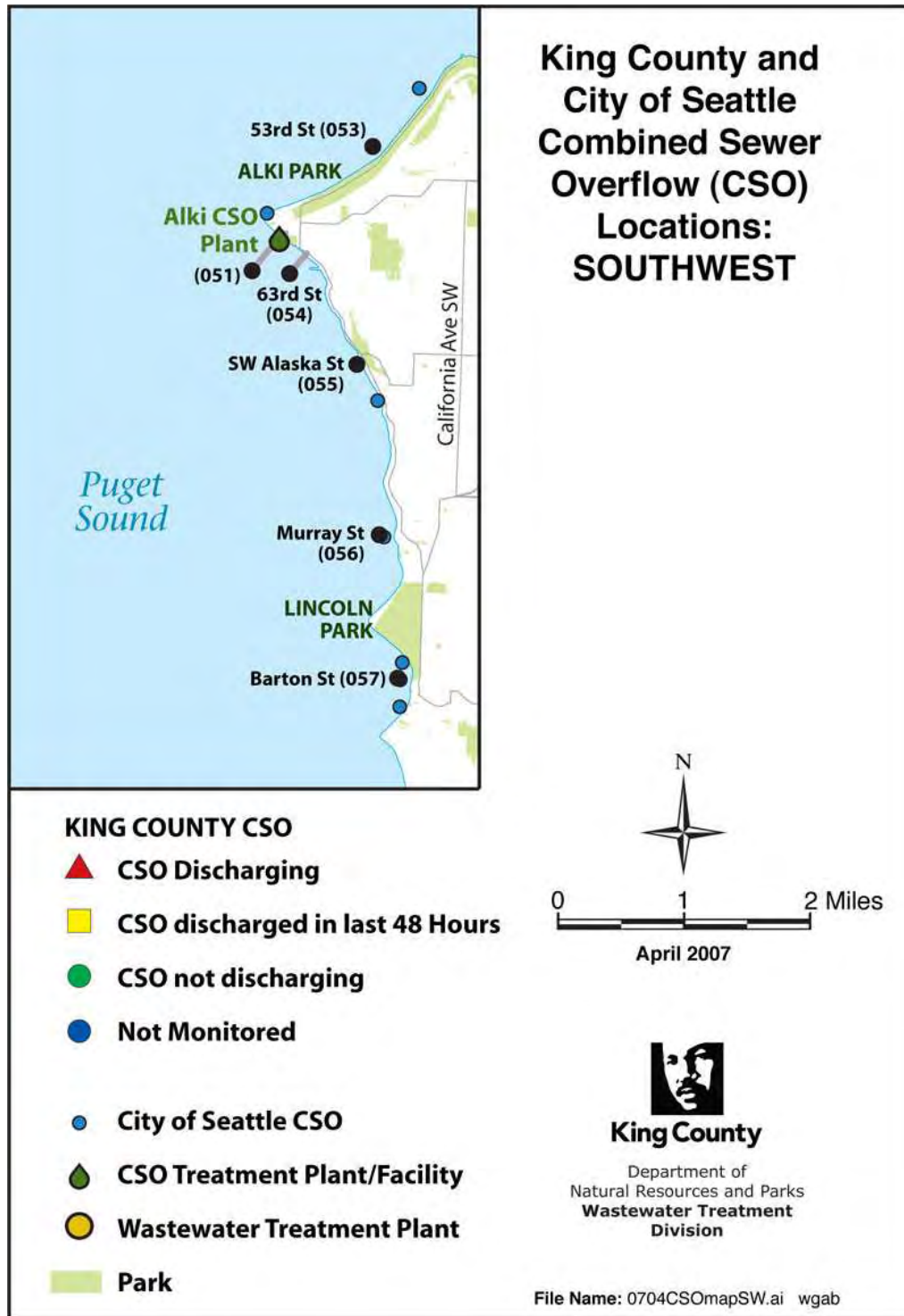


Figure 4. Proposed Alki CSO Status Map



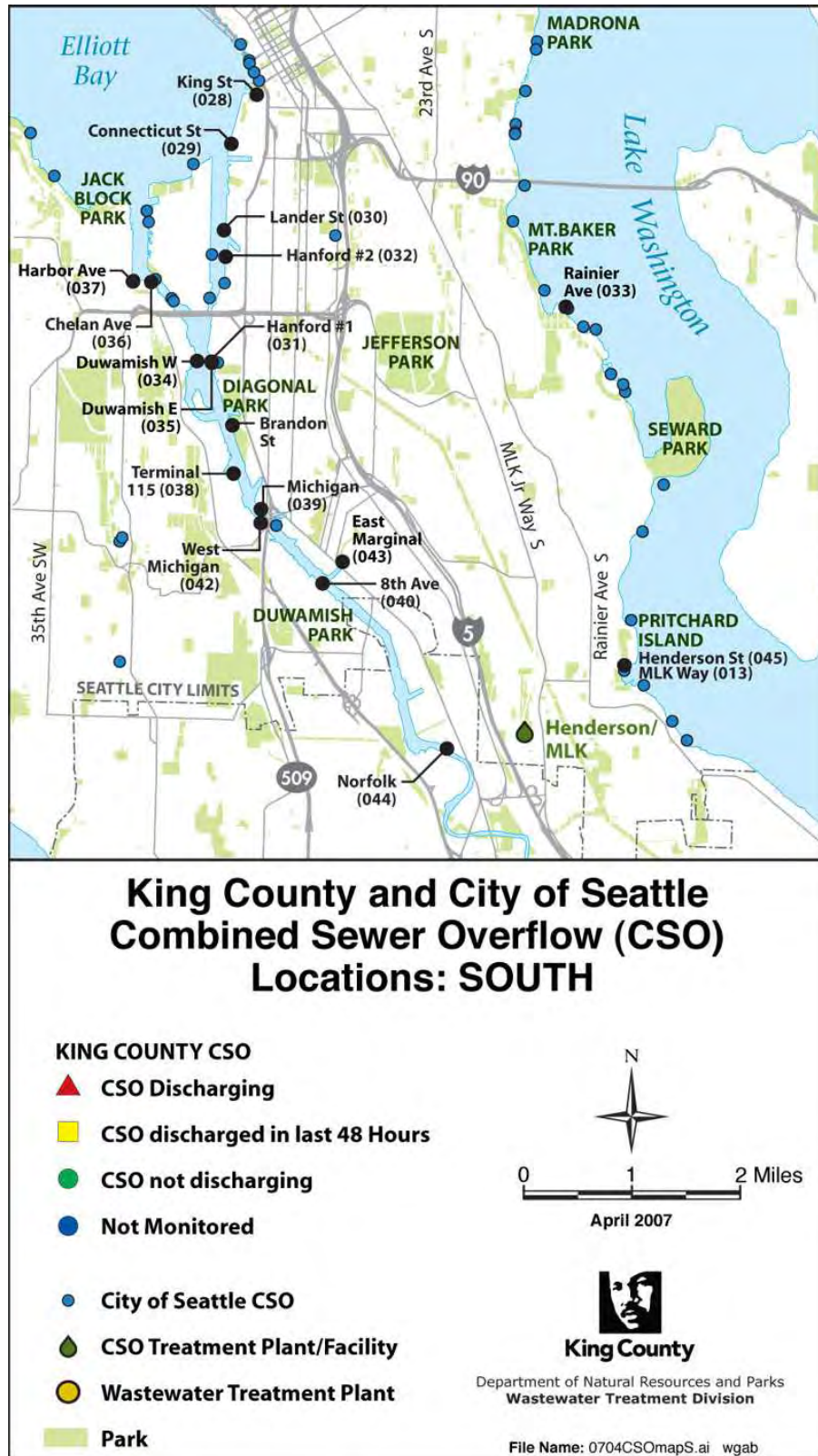


Figure 5. Proposed Duwamish/Elliott Bay/Lake Washington Map

These maps are being presented at County briefings and workshops where the public is being asked to comment on how well they meet notification needs.

The current testing of this notification approach is not yet complete – additional experience during wet weather is needed to refine the system with protocols to differentiate maintenance and repair activities from overflows, to handle data failures, and other encountered situations. When the testing is complete the County will evaluate the effectiveness of the approach in presenting accurate and balanced information, and will decide whether to implement it on the internet for the public. If the system is put on the internet, stakeholders will be notified by email or mail, and the general public will be notified via the County's internet site and the county's public outreach materials. Location signage will be modified with the internet address. The County's decision will also be reported in the 2008 CSO Annual Report.

### ***CSO Control Program Public Participation***

Public Involvement for review of the Notification Program is occurring as a component of a larger involvement program in order to provide balanced context, minimize confusing or redundant messages, and streamline access to the information.

The County's CSO control program is comprised of the following efforts:

- Conveyance systems that are operated to maximize the amount of combined wastewater flows that are transported to treatment facilities
- Provision of the highest levels of treatment that can be achieved by the system – secondary treatment first, primary treatment at the central plants second, and satellite primary treatment when necessary
- A capital improvement program to implement a Plan to bring all County CSOs to Washington State's standard of one untreated event per year per site on average
- Monitoring and reporting programs to meet regulatory requirements and inform stakeholders of status and progress
- Community involvement to ensure the public has the information they need and are able to provide input to shape the program

Community involvement is sought at the program level, but also at the program component level. The intensity of involvement activities will vary with schedules to update the CSO Control Plan, initiation of construction projects, special studies, technology and scientific developments, and expressed public interest.

### **On-going Notification, Information and Public Input Opportunities**

Current on-going CSO control program information is presented to the public in the context of the County's overall wastewater management programs, and occurs through the following:

- A County CSO Control Program web-site providing program information, access to compliance reports, plans and studies, contact phone numbers, and links
- Signage at each publicly accessible CSO locations, providing basic warnings and a phone number to obtain more information from the Seattle-King County Health Department
- Seattle-King County Health Department Information phone line and CSO Website
- Health Department visits to businesses in the vicinity of CSOs to promote awareness and provide information brochures
- CSO Control Project Community Relations processes for predesign, design and construction.
- Wastewater Treatment Facility tours
- Presentations on water quality and wastewater treatment at community groups, schools and other agencies
- Participation in an annual water-quality phone survey on awareness and opinions

## Control Plan Update Public Involvement

The CSO Control Plan and updates set the trajectory for the Control Program. When Updates to the Control Plan are being developed community input is sought. This occurs approximately every five years (in conjunction with the NPDES permit renewal cycle). This Plan Update process becomes a focused opportunity to remind and educate the public about the program, needs, and impending decisions and to solicit their opinions. An extensive process occurred between 1997 and 1999 for the development of the Regional Wastewater Services Plan (RWSP), a major amendment to the County's wastewater comprehensive plan, including the CSO Control Plan component. In parallel, a structured stakeholder process supported the County's *CSO Water Quality Assessment for the Duwamish River and Elliott Bay* (1999). While development of the 2008 CSO Plan Update is under way, information developed from the County's 2006 CSO Control Program Review (the need to recalibrate and update the County's hydraulic model, and the decision to pilot some CSO treatment technologies) shifted any major program modifications to 2009 and 2010. This has changed the focus of public involvement from input to near-term decisions to awareness and education to prepare the public for the later decisions. The County has initiated pre-design for the four Puget Sound Beach projects during the timeframe of the 2008 NPDES permit. We have modified the involvement process for the 2008 Plan Update to include the following elements:

Public information /outreach activity	Dates	Purpose	Notes
Public Workshop #1	Fall 2006	To educate the public regarding the CSO "problem, current projects, other ongoing work, the technology pilot project, and potential notification program improvements.	Held October 25, 2006 See description below
Interviews	2007	Small meetings to reach stakeholder who did not participate in the Fall workshop, and to receive information on more local issues and concerns.	Develop a standard list of open ended questions to ask stakeholders their environmental priorities for and the place of CSO control within them, to identify additional information needs, and to solicit any early control program recommendations. Draft Notification Program Review questions in App. A
Public Workshop #2 (under consideration)	Fall 2007 or later	The timing of this proposed workshop, under the 2008 Plan Update, is being re-evaluated.	May be delayed to early 2009
Puget Sound Beach Project Stakeholder Workshop	Summer 2007	To describe potential control alternatives for the four locations and solicit stakeholder comment on approaches, issues and concerns	This workshop and other activities will provide information for the 2008 Plan Update. Public Notification will be discussed.

**Table 1 CSO Control Plan Update Public Notification Plan**

The first public workshop for the Plan Update was held October 25, 2006 from 11am to 1p at Town Hall in Seattle. Lunch was provided – a working lunch - to make it easier for people to attend. Seventy-two individuals received invitations and 23 were contacted directly by phone. The following groups attended:

Carkeek Watershed Community Action Project (Nancy Malmgren)  
City of Seattle (Jason Sharpley)  
City of Seattle (Rich Costello)  
Duwamish River Cleanup Coalition (BJ Cummings)  
Duwamish Tribe (Jim Rasmussen)  
Fremont Neighborhood Association (Jenny Eichwald)  
Fremont Neighborhood Association (Sheridan Hammond)  
Georgetown Community Council (Sherell Ehlers)  
King County Industrial Waste Program (Bruce Tiffany)  
King County Water and Land Resources Division (Jonathon Frodge)  
Morgan Community Association (Murray) (Sigrid Broderson)  
People for Puget Sound (Heather Trim)  
Puget Soundkeepers Alliance (Jennifer Joseph)  
NOAA Fisheries (Phyllis Meyer)  
Port of Seattle (Marilyn Guthrie)  
Suquamish Tribe (Tom Ostrom)  
US EPA - Region 10 (Eva Chun, Kris Flint, Lisa Olson)  
Washington Department of Ecology (Karen Burgess)  
WRIA 9 (Dennis Clark)

An overview of the County's CSO Control Program – the problem, the approach to control and the goals, progress to date, and coming projects – was provided. The current 2008 CSO Plan Update process and the Public Notification Feasibility study were described briefly. The project manager of the first RWSP CSO Control Projects, Dave Dittmar, gave a short presentation on the planned projects, schedule and community involvement opportunities. The group was then led through a discussion of the relative benefits of the major control technologies being considered by the County – separation, storage and satellite CSO treatment. Small groups were then asked to rank water quality, sediments, public health and endangered species as preferred drivers for the County's CSO control decisions. A lively discussion followed in which participants chose to define water quality more broadly than the County's focus on short term water column pathogen exposure. In their view water quality became the major influence of the others – if water quality was good then sediments, public health and species would be protected. A more holistic view was desired and the group encouraged King County to take a leadership role. While another exercise in which preferred approaches to involve the public would be ranked was planned, the enthusiastic discussion on water quality overshadowed it, and only limited input was received.

Beginning in January 2007 follow up interviews are being held with workshop participants. Groups not able to attend will also be offered presentations and interviews. Improvements to the public notification program will be a component of these interviews. A draft questionnaire about awareness of and improvements to the current notification program is included as Appendix C. Area-targeted flyers have also been sent out providing basic program information, schedule and contact information. A tear-off return mailer can be returned to the county requesting more information or a briefing and soliciting basic interest in internet-based notification. These appear in Appendix D. This is an on-going effort, but a list of contacts and meetings held or scheduled as of July 1, 2007, is also included as Appendix D.

## **Construction Project Community Involvement**

The next CSO control projects will be at the Puget Sound Beach locations of Barton and Murray in the Alki area, Magnolia on the north side of Elliott Bay, and North Beach just south of Carkeek Park. These locations were ranked highest priority during the RWSP because of the nearby recreational use and potential public health risk. The projects are in the six year capital improvement plan, and began predesign at the start of the 2007. State low interest loans have been awarded for all but Magnolia to fund

development of their Facility Plans. A team of King County staff and consultants are supporting predesign Community involvement for the two Alki projects began in 2005, so as to be integrated with that of the asset management projects (electrical and pump upgrades, installation of emergency generators and odor control) that are occurring ahead of the CSO control projects. Many meetings with the neighborhood associations and Seattle Parks Department have occurred, as well as open houses in March 2006 and June 2007. Briefings to the North Beach and Carkeek neighborhoods have begun, and Magnolia contacts begin soon. Public Notification program input is being sought during these contacts.

### **Special Projects: Lower Duwamish Waterway Group, CSO Treatment Technology Pilot, and Public Notification Coordination**

The Lower Duwamish Waterway Group (LDWG) was formed as a partnership between King County, City of Seattle, Port of Seattle and Boeing to proactively address sediment remediation needs ahead of and in support of the Superfund listing. As CSOs are one of many contributors to sediment contamination in the past, the CSO control program initiated this work for the County, which then evolved into a stand alone program. Superfund requires the funding of activities to ensure public involvement in the process. King County contributes funding to EPA to support groups like the Duwamish River Clean up Coalition (DRCC). Through this program there is an on-going exchange of information about CSOs, control status and scientific developments with the community. Numerous contacts have occurred since 2000 and are not recorded in Appendix XXX, but recent and planned contacts that provide information on the Plan Update and Notification program are listed.

An early recommendation of the 2008 CSO control plan update process was that improvements in technologies had made some of the high rate sedimentation processes candidates for use in the County's control program. To verify their ability to meet the County's goals two variations will be tested at bench and pilot scale levels. Several groups have expressed interest in these pilots and will be invited to participate in a stakeholder group. This process will occur between mid-2007 and late 2009.

King County, City of Seattle and Seattle-King County Health Department are currently responsible for implementing the CSO notification program. The Health Department sends reports to the County and City approximately quarterly covering all contacts via the hotline and visits. Any issue trends can be identified and followed up on. Meetings with the partners were held late January and May 2007 to review the program, stakeholder feedback and to propose changes to the program. Recommendations included:

- Inform the public about CSO notification and where to find information through all CSO outreach activities.
- Update CSO maps to focus on nearby major roadways and parks as locators.
- Continue the County CSO internet website with on-going improvements. It is well used and feedback is mainly positive.
- Increase data availability on the website and develop component page on monitoring and data interpretation.
- Continue the phone line. Though it isn't often used for CSO questions, it is an inexpensive and easy to maintain link for the public.
- Sea-King County Public Health Department will update their brochure and visit targeted businesses and groups near CSOs.
- Maintain signage. If a real-time notification site is place in service update the signs with the website address.
- Complete testing of the real-time notification website; implement if found feasible.

Some CSO cities issue blanket CSO warning for the whole wet season. Since Seattle experiences rain about 130 days per year, or one out of every three days, there would be some justification in this approach, but it was rejected because it overestimate exposure risk - CSOs do not occur every time it rains. It was also felt this would not be satisfying to the public. Approaches such as warning lights and email alerts were again rejected as creating an inaccurate impression of new or increased risk. Newspaper

announcements were again rejected as not providing real-time information, and radio announcements as not providing site specific information.

### ***Notification Feasibility Study Public Participation Plan Summary***

Web-based notification technical feasibility assessment	Jun 05- Mar 07
CSO Plan Update Public Workshop #1	Oct 06
Stakeholder Mailings and Briefings, including Notification Program Input	2007
Notification Team Review and Proposal Development	Jan and May 07
CSO Control Project Community Briefings, incl. Notification	Jan 07 (– Dec 12)
Notification Real-time Website Testing	Mar 07 into 2008
Final Feasibility Study submittal	Jul 07
County Review of Real-time Website Testing and Feasibility	2008

### ***2007 King County CSO Notification Program***

The County's updated notification program includes:

- Outreach and education through an integrated program addressing CSO control planning and updates, control projects, public notification, special projects (e.g. sediment remediations and technology pilots), and general wastewater management and water quality topics.
  - Workshops and open-houses
  - Brochures and mailings
  - Briefings and meetings
  - Treatment Plant tours
- Communication of status and projects through an informative County CSO website containing data, reports, links to related information and contacts.
- Maintenance of signage at all publicly accessible CSO sites
- Continued funding of the Seattle-King County Health Department to provide:
  - A website covering CSO-related public health information
  - Brochures on CSO risk and precautions
  - Business and group CSO education visits, and
  - A CSO information phone line.
- Complete testing of a web-based real-time CSO notification site; implementation decision in early 2008

### ***Contacts***

For any questions on this feasibility study or the County's CSO Control Program, contact Karen Huber, King County CSO Control Program Manager, at (206)684-1246 or via email at [karen.huber@metrokc.gov](mailto:karen.huber@metrokc.gov)



# **Appendix A: King County CSO Control Program Website**

As of December 2006



## King County's Combined Sewer Overflow Control Program

Thank you for visiting the Web site for King County's Combined Sewer Overflow (CSO) Control Program Web site. Here, we share information on what a CSO is, why they occur, and where they are found in the King County system. And we explain what we're doing to control them.



*Undercurrents*, 2003 -- Plaza view at the Denny Way Regulator Outfall, Myrtle Edwards Park, Seattle, Washington.  
Artist: Laura Haddad

**By reducing combined sewer overflows into local water bodies, King County is protecting public health and the environment.**

### What are CSOs?

CSOs are discharges of untreated sewage and stormwater released directly into marine waters, lakes and rivers during heavy rainfall, when the sewers have reached their capacity.

Although the sewage in CSOs is greatly diluted by stormwater, both CSOs and stormwater may be harmful to public health and aquatic life because they carry chemicals and disease-causing pathogens.

### Why do we have CSOs?

From the late 1800s through the 1940s, engineers designed combined sewers (sewers that carry sewage and stormwater runoff in a single pipe) to convey sewage, horse manure, street and rooftop runoff, and garbage from city streets to the nearest receiving body of water.



Older combined system (pre-1950s)

### What's New

2005-2006 Annual Report for the King County Combined Sewer Overflow Control Program is [now available](#).

### Contents

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- [Why do we have CSOs?](#)
- [Where are King County CSOs?](#)

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How do we control CSOs?  
 Transferring flow  
 Increasing capacity  
 Constructing local CSO treatment facilities  
 Reducing stormwater entering the system

#### Reduction and Cost

Requirements for CSO control  
 How much have CSOs been reduced?  
 What are CSO Control costs?

#### The CSO Program:

CSO Projects  
 Notification and Posting  
 Sediment Management  
 Water Quality Assessment  
 Annual Report  
 Program Updates  
 Regional Wastewater Services Plan

#### Being a Good Neighbor

#### Program Library

#### Glossary of Terms



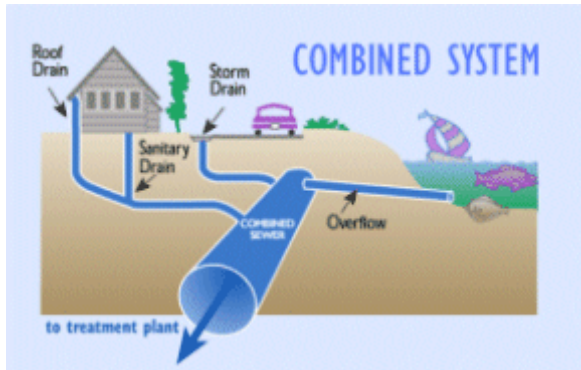
A King County  
[Earth Legacy Program](#)

#### See also:

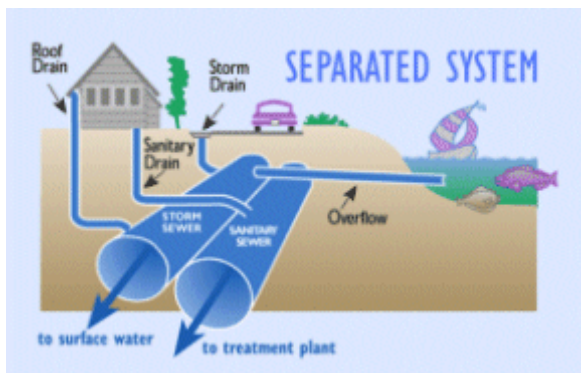


[Seattle-King County Public Health CSO Public Notification Program](#)

Around the 1950s, most sewer systems were built as separated systems (sewage in one pipe; stormwater in another pipe). In the late 1950s, treating wastewater became the standard. Interceptor pipes were built to transport all wastewater (from either combined or separated systems) to treatment plants.



Typical modern combined sewer system (post-1950s)



Typical separated sewer system

## Where are King County CSOs?



View a map of [CSO locations](#).

Combined sewers exist in many parts of older cities, including Seattle. During heavy or long storms, the volume of the stormwater runoff may become too much for the combined sewers to handle. To protect treatment plants and avoid sewer backups into homes, businesses and streets, combined sewers sometimes overflow into Puget Sound, the Duwamish Waterway, Elliott Bay, the Lake Washington Ship Canal and Lake Washington.

Many of these CSOs have been [reduced](#). Both King County and the City of Seattle manage CSOs within Seattle. King County's Wastewater Treatment Division manages 37 locations and Seattle Public Utilities manages more than 100 (see [map](#)).



## The CSO Control Program -- Controlling Combined Sewer Overflows

### How do we control CSOs?

Major methods of CSO control include:

- maximizing the transfer of flows to and between King County Treatment Plants using computer controls
- increasing conveyance capacity by building storage tanks, storage tunnels, pump stations, regulator stations, and pipelines
- building local CSO treatment facilities
- reducing the amount of stormwater entering the system by separating sewers in combined areas, repairing leaky side sewers, and disconnecting roof and yard drains.

### Transferring flows

One method King County uses to decrease CSOs is transferring wastewater flows from the part of the system that lacks capacity to another part of the system that has excess capacity.

For example, in the winter during times of heavy flow when the northern part of the King County sewer system may exceed its capacity, treatment plant operators may transfer a part of the northern wastewater flow to the southern service area (where it is then routed to the [South Treatment Plant](#) for secondary treatment). This transfer of wastewater flow provides more capacity in the northern service area pipes to retain combined sewage and thus decrease CSOs.

### Increasing capacity -- building storage tanks, storage tunnels, pump stations, regulator stations, and pipelines

Another method of decreasing CSOs is by building combined sewer storage tanks or tunnels. As mentioned earlier, during heavy storms, the additional water in the combined system may cause wastewater pipelines to exceed their capacity and overflow. To reduce CSOs from entering area water bodies, King County has built storage tanks and tunnels. These storage tanks and tunnels hold combined sewage until the rainstorm subsides. As soon as the wastewater pipelines have more room to accept the stored combined sewage, it is released into the wastewater pipelines.

The pipelines then convey the combined sewage to a CSO treatment plant or the [West Point Treatment Plant](#) for treatment and then discharge into Puget Sound. For some projects, the storage tank or tunnel may also provide primary treatment. The [Henderson/MLK Way/Norfolk](#)

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- [Increasing capacity](#)
- [Constructing local CSO treatment facilities](#)
- [Reducing stormwater entering the system](#)

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Requirements for CSO control  
 How much have CSOs been reduced?  
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#### [Being a Good Neighbor](#)

#### [Program Library](#)

#### [Glossary of Terms](#)



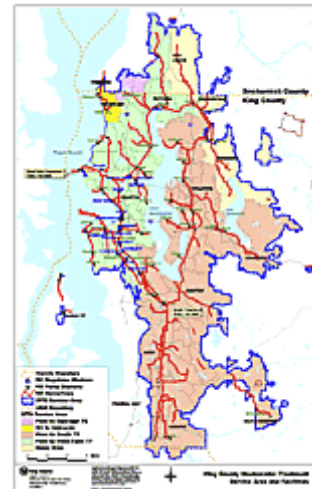
A King County  
[Earth Legacy Program](#)

[CSO Control Project](#) and the [Denny Way/Lake Union CSO Control Project](#) provide both storage and treatment.

[Pump stations](#) are structures that move wastewater uphill (against gravity). Pump stations push wastewater through pipelines to a treatment plant where it is treated and then discharged to Puget Sound. King County has more than 40 pump stations throughout its service area.

[Regulator stations](#) are structures that control the flow of wastewater from a [trunk sewer](#) to an [interceptor sewer](#). Regulators can be used to restrict or halt flow, thus causing combined sewage to be stored in the [collection system](#) until the main interceptor can handle it or discharged to the receiving water as a CSO. King County has 19 regulator stations.

Pipelines are also built to convey the combined sewage to CSO Treatment Plants or the West Point Treatment Plant in Seattle and the South Treatment Plant in Renton.



[King County wastewater treatment service area maps](#)

## Building local CSO treatment facilities

CSO treatment facilities are designed to provide primary treatment (physical settling of solids), disinfection (usually chlorination), and dechlorination of CSOs. They are built to directly serve the area where they are located. Unlike the West Point Treatment Plant, these facilities operate only during heavy rainfall. King County CSO treatment facilities include the Alki CSO Treatment Plant, the Carkeek CSO Treatment Plant, the [Denny Way/Lake Union CSO Control System](#), and the [Henderson/MLK Way/Norfolk CSO Control System](#). Many of King County's local CSO treatment facilities include a CSO storage tank or tunnel.

## Reducing stormwater entering the system

There are several methods to reduce stormwater from entering the wastewater system. One method is sewer separation. Sewer separation takes place in combined sewer areas when additional pipelines are laid in the area. The new pipeline then conveys stormwater directly to the nearest water body and the older pipeline conveys sewage to a secondary treatment plant (such as the West Point plant). Once these new pipes are in place, the area is considered a separated system. For more information on separated and combined systems visit: [Why Do We Have CSOs?](#)

Another method of reducing stormwater into the wastewater system is by [repairing leaky side sewers](#). This method keeps rainwater out of the wastewater system, which reduces CSOs.

In many areas, roof and yard drains have been connected into the wastewater system. [Disconnecting and rerouting these drains](#) keeps rainwater out of the wastewater system, which reduces CSOs. The CSO Program Library has more information on [reducing stormwater into the wastewater system](#).





## The CSO Control Program -- Reduction and Cost

### What are the requirements for CSO control?

CSO control is required by state law and federal CSO policy. Washington State has chosen to have a less flexible approach, requiring that CSO discharges be reduced to no more than one untreated discharge per year on average at each CSO location.

The federal policy allows two different approaches for CSO control: presumptive and demonstrative. Under the presumptive approach, four to six untreated discharges per year on average are allowed at each CSO location. Under the demonstrative approach, computer modeling or other tools are used to predict the impacts of CSOs on water bodies. Depending on the results, zero or more than six untreated discharges may be allowed at each CSO location.

### How much have CSOs been reduced ?

Controlling CSOs has been a priority for King County and the City of Seattle since the 1960s, when 20 billion to 30 billion gallons of untreated CSOs were discharged into area water bodies. Although CSOs still happen during heavy rainfall, the volume of discharge is far less. Because of control efforts during the past 30 years, [King County CSO volume](#) has been reduced significantly from a 1980-83 baseline of 2.3 billion gallons to about 1.5 billion gallons per year on average.

King County is committed to protecting water quality and human health. Under its [Regional Wastewater Services Plan](#), King County has developed CSO control projects to bring the remaining uncontrolled CSOs to the Washington state requirement of one untreated discharge per year. These projects will be completed by 2030.

### What are CSO control costs?

When CSO control is complete, it will have cost about \$600 million. CSO control is expensive for several reasons:

- Large storms generate large volumes of CSO quickly. This requires large facilities to treat and/or contain the large volumes.
- Large facilities require more land, additional contractor work, and materials.
- Most of the projects are in heavily urbanized areas, and construction must be carried out in ways that minimize disruption and fit into the character of the community.

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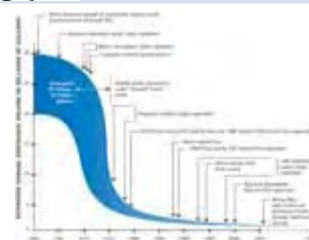
#### **This Page: Reduction and Cost**

- Requirements for CSO control (at left)
- [How much have CSOs been reduced?](#)
- [What are CSO Control costs?](#)

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#### [Being a Good Neighbor](#)

[Program Library](#)[Glossary of Terms](#)A King County  
[Earth Legacy Program](#)

This [graph](#) shows CSO reductions from the many control projects King County has completed.



## The CSO Control Program

King County's CSO program implements the [CSO Control Plan](#). The program employs various ways to control CSOs, including controlling pollution at its sources, optimizing flow management, monitoring and modeling flows in the system, and constructing CSO control facilities. The program also includes public notification and outreach, sediment management, water quality assessment, plan review and updates, and annual reports.

## Projects

The wastewater treatment utility operated by King County has completed several projects to reduce combined sewer overflows since the 1980s. Two projects completed in 2005 include the [Henderson/Martin Luther King Jr./Norfolk CSO Control Project](#) and the [Denny Way CSO Control Project](#) (a joint project with the City of Seattle).

### King County expects to build about 20 CSO control projects during the next 30 years.

These projects have been [ranked](#) to protect public health, beginning with construction of CSO control projects along Puget Sound beaches (2010-2011) and the east end of the Lake Washington Ship Canal (2015). The final phase of projects will be built along the Duwamish River (2017-2027) and the west end of the Ship Canal (2029-2030).

#### More Information

[CSO reduction over time](#) (graph)

[Project phasing](#) (map)

[Project status](#)

[EPA's nine minimum controls](#)

[Ongoing program elements](#)

## Notification and Posting

King County has worked jointly with the City of Seattle and the Seattle-King County Health Department in posting warning signs at CSO locations and undertaking public outreach.

The Health Department maintains a CSO information line (206-205-1151) and [Web site](#) to answer any health concerns about CSOs.

## Sediment Management

Areas of contaminated sediments exist near some King County CSOs. Most of this contamination is historical, as the county's [Industrial Waste Program](#) and CSO Control Program have dramatically reduced pollutants from CSOs. However, the state Department of Ecology has listed several sites in the Duwamish River near CSOs and stormwater outfalls as possible contaminated areas. To deal with sediment issues, King County is partnering with other agencies and organizations to clean up contaminated sites.

More about King County's [Sediment Management Program](#).



CSO Warning Sign  
(posted at CSO sites)

## CSO Water Quality Assessment

This study was completed in 1998 with help from a large stakeholder group and the Water Environment Research Foundation. The study looked at the following:

- What are the existing sediment and water quality conditions of the Duwamish River and Elliott Bay?
- What are people's values and concerns about the river and the bay?
- How much pollution is contributed by CSOs versus other sources of pollutants?
- What are the impacts of CSOs on human health and aquatic life?

The study found that most risks will be unchanged by the removal of CSOs. That's because most of the risk-related chemicals come from sources other than CSOs. However, removing CSOs will reduce risk of infection from human pathogens, most notably near the Denny Way CSO (which will be controlled by 2004). In addition, removing CSOs will reduce risks to sediment-dwelling organisms near the CSO discharges. Visit the [Water Quality Assessment Web site](#) for more information.

## Annual CSO Report

This [report](#) is developed every year and includes an overview and status of the CSO Control Program, and information on annual CSO volumes and number of discharges from each King County CSO. It is submitted to the state Department of Ecology.

## CSO Control Program Updates

About every five years as part of the [National Pollutant Discharge Elimination System \(NPDES\) permit](#) for King County's West Point Treatment Plant, King County must provide an update on the CSO control program to the state Department of Ecology. The [CSO Control Program Updates](#) include the volume and discharge reduction King County has achieved and estimates will be achieved; information on past and future CSO control projects; and discussion of new regulations, initiatives and technologies affecting the CSO control program.

Note: the next CSO Control Plan Update due date to Ecology has changed in the last NPDES permit to 2008. A [CSO Control Program Review report](#) was published in April 2006.

## Regional Wastewater Services Plan

King County's Regional Wastewater Services Plan (RWSP) outlines future sewer infrastructure for King County during the next 30 years. Elements include CSO control projects, a third regional treatment plant, biosolids management, water reuse, and inflow and infiltration reduction. Visit the [RWSP Web site](#) for more information.



## CSO Control Program -- Being a Good Neighbor

King County is committed to working with local communities to ensure that wastewater facilities fit in with the character of the community and are considered an asset. The Elliott West CSO Control Facility, Carkeek Park Pump Station (located next to the Carkeek Park CSO Treatment Plant), the Interurban Pump Station, and the Dexter Regulator Station Green Roof are examples of this commitment.



[Enhancing the  
Environment with our  
Facilities](#)  
[Being a Good Neighbor  
during Construction](#)



Elliott West CSO Control Facility, Seattle, Washington



Carkeek Park Pump Station, Seattle, Washington



Interurban Pump Station, Seattle, Washington

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A King County  
[Earth Legacy Program](#)



Dexter Regulator Station Green Roof, Seattle Washington

We can work together to protect water quality in many ways. Remember that what goes down drains may go into lakes, streams, rivers, and other water bodies. We can all help protect our water by:

- reducing our use of chemicals in our homes and on our yards.
- keeping paints, oils, and pesticides out of storm drains.
- fixing leaks from vehicles.
- [placing trash](#) such as diapers, napkins, tampons, condoms and cigarettes in your wastebasket and not your toilet.

Please visit the CSO Control Program [Library](#) for additional resources.

## The CSO Control Program -- Library

You will need the free [Adobe Acrobat Reader](#) to view the PDF files.

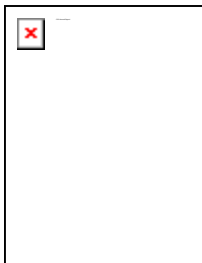
- CSO Control Program Brochure
- [CSO Control Annual Reports](#)
- [CSO Control Plans, Updates and Reviews](#)
- [CSO Water Quality Assessment](#)
- [CSO Resources and Links](#)
- [Graphics](#)
- [Photos](#)

### CSO Control Program Brochure



[CSO Control Program Brochure](#),  
April 2005  
(950 KB)

### CSO Control Annual Reports



This report is developed every year and includes an overview and status of the CSO Control Program, and information on annual CSO volumes and number of discharges from each King County CSO. It is submitted to the state Department of Ecology in accordance with the requirements established within the West Point Treatment Plant [NPDES Permit](#), Number WA-002918-1 and in [WAC 173-245-090](#) ([external link](#)).

Here is the executive summary for the [2005-2006 Report](#). Complete reports for current and earlier years are listed below:

<a href="#">2005-2006</a> (513 KB)	<a href="#">1998-1999</a> (3.7 MB)	<a href="#">1992-1993</a> (1.3 MB)
<a href="#">2004-2005</a> (381 KB)	<a href="#">1997-1998</a> (4.0 MB)	<a href="#">1991-1992</a> (1.2 MB)
<a href="#">2003-2004</a> (313 KB)	<a href="#">1996-1997</a> (3.3 MB)	<a href="#">1990-1991</a> (1.2 MB)
<a href="#">2002-2003</a> (264 KB)	<a href="#">1995-1996</a> (3.3 MB)	<a href="#">1989-1990</a> (862 KB)
<a href="#">2001-2002</a> (300 KB)	<a href="#">1994-1995</a> (4.2 MB)	<a href="#">1988-1989</a> (739 KB)
<a href="#">2000-2001</a> (255 KB)	<a href="#">1993-1994</a> (2.0 MB)	<a href="#">1987-1988</a> (400 KB)
<a href="#">1999-2000</a> (2.9 MB)		

## CSO Control Plans, Updates and Reviews



The state Department of Ecology's CSO regulation ([WAC 173-245](#)) ([external link](#)) and King County's [RWSP policies](#) require WTD to submit a CSO plan update to Ecology that coincides with each [NPDES permit](#) renewal for the West Point Treatment Plant. Updates are intended to describe WTD's progress on its CSO program to date, identify its program for the next 5 years, and provide a vehicle for making changes in the overall long-term CSO control program. WTD prepared such an update in 2000 ([see below](#)) when the West Point NPDES permit renewal was submitted to Ecology.

In addition to updates, the RWSP policies call for a CSO control program review to be done prior to the plan update that would occur as a part of the next NPDES permit renewal following the plan update and permit renewal in 2000. At the time the RWSP was prepared, the update and permit renewal were anticipated to be due in 2005. Ecology subsequently determined that the next NPDES permit renewal will be due in 2008.

The CSO program review is now completed—well ahead of the 2008 Ecology-required update and permit renewal—providing the [King County Council](#) and the [Regional Water Quality Committee](#) (RWQC) time to comment on or make any needed recommendations to modify the CSO program.

### **CSO Control Plan Review, April 2006**

[Table of Contents](#)

[Executive Summary](#)

[Complete document](#) (1.5 MB)

### **2000 CSO Control Plan Update, June 2000**

[Table of Contents](#) (121 KB)

[Complete document](#) (6.1 MB)

### **King County CSO 5-Year Update**

#### **Task 4.0, Development of Alternatives, December 1997**

[Table of Contents](#) (548 KB)

[Executive Summary](#) (525 KB)

[Complete document](#) (43 MB)

### **METRO CSO 5-Year Update**

#### **Task 5 Report, RWSP System Alternatives,**

#### **Supporting CSO Project Descriptions, August 1995**

[Table of Contents](#) (118 KB)

[Complete document](#) (21 MB)

### **1995 CSO Control Update, February 1995**

[Table of contents](#) (113 KB)

[Complete document](#) (5.2 MB)

### **1986-1991 CSO Control Plan Update, January 1992**

[Table of contents](#) (59 KB)

[Complete document](#) (1.7 MB)

### **1988 CSO Control Plan, April 1988**

[Table of contents](#) (89 KB)

[Complete document](#) (4.3 MB)

### **1986 Final Supplemental Plan for CSO Control: Plan for Secondary Treatment Facilities and CSO Control, Volume 3, July 1986**

[Table of contents](#) (194 KB)

[Complete document](#) (6.6 MB)



## CSO Water Quality Assessment

- [Overview of the CSO Water Quality Assessment](#)
- [WQA Summary Document](#)
- [WQA Data](#)
- [WQA Reports](#)

## CSO Resources and Links



[Off-Site Facilities: An Overview of King County Pump and Regulator Stations](#), June 1999 (1 MB)



### [1958 Metro Sewer Comprehensive Plan](#)

King County residents voted in 1958 to build and operate a regional agency called the Municipality of Metropolitan Seattle, or Metro, to clean polluted waters of Lake Washington and Puget Sound. Since then, we have helped prevent water pollution and improve water quality while recycling natural resources. No longer called Metro, the wastewater utility is now a division in King County's Department of Natural Resources and Parks.

The [Regional Wastewater Services Plan](#) (RWSP) is the most recent update to the 1958 Plan and outlines a number of important projects and programs that King County will implement through 2030.

## Programs

- [CSO Control Program](#)
- [Community Relations](#)
- [Duwamish Waterway Programs](#)
- [Industrial Waste Program](#)
- [Inflow & Infiltration Program](#)
- [Local Hazardous Waste Program](#)
- [Marine Monitoring](#)
- [Regional Wastewater Services Plan](#)
- [Seattle-King County Public Health CSO Public Notification Program](#)
- [Trouble Call Program](#)
- [Wastewater Water Conservation Program](#)
- [West Point Treatment Plant](#)

## Projects

- [CSO Water Quality Assessment](#)
- [Lower Duwamish Waterway Group](#)
- [Duwamish/Diagonal Sediment Remediation Project](#)
- [Conveyance System Improvements Project](#)



## Reducing Stormwater Into The Wastewater System

- [Use a rain barrel to reduce stormwater into the wastewater system, save money on your water bills, and conserve water](#)
- [Disconnect and reroute roof and yard drains that run into the sewer system](#)
- [Stop Sewer Backups: How to Safeguard Your Home and the Environment by Disconnecting Downspouts](#)  
(Water Environment Federation information)
- [Reduce and eliminate inflow & infiltration](#)



## Keep Trash and Other Items Out of the Wastewater and Stormwater System

- [If it's not biodegradable, put it in the trash can, not the toilet, or recycle it.](#)
- [Get rid of stuff you don't want or need -- recommended methods](#)
- [Reduce your use of materials with potential endocrine disrupting chemicals](#)
- [Fat-Free Sewers: How to Prevent Fats, Oils, and Greases from Damaging Your Home and the Environment](#)  
(Water Environment Federation information)
- [Alternatives to Household Hazardous Products](#)
- [Dispose of household hazardous waste properly](#)
- [Resources about practicing natural yard care](#)
- [Storm Drain Stenciling Project](#)



## Touring Treatment Plants and/or CSO Control Projects

- [Treatment Plant Tours, CSO Control Project Tours](#)



## Miscellaneous Resources

- [Conserve water at home](#)
- [Learn how to reduce household sewer odors](#)
- [Learn how to report sewer odors](#)
- [Stay informed about current wastewater treatment activities](#)
- [Report drainage and water quality problems](#) (for areas in unincorporated King County )
- [Apply for a Water Works grant to protect water quality](#)
- Seattle Public Utilities Information (external links)
  - [Tips to Prevent Sewer Backups](#)
  - [Tips to Prevent Health Problems from a Sewer Backup](#)
- Resources for Teachers and Students
  - [The Salmon Challenge Game](#) (see how your decisions help or harm our environment and the salmon)
  - [List of environmental resources for students and teachers](#)
  - [Natural Resources Kids Page](#)
  - [San Diego Wastewater Website for Kids](#) (external link)



## Graphics

Click on the graphic or text link to view larger image.



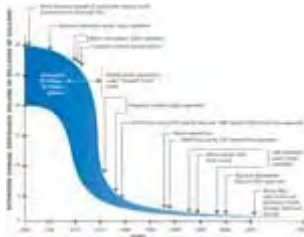
[Older combined sewer \(pre-1950s\)](#)



[Combined sewer \(post-1950s\)](#)



[Separated sewer](#)



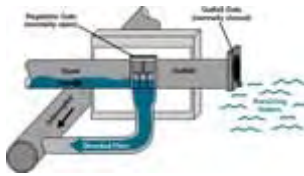
CSO reduction graphic



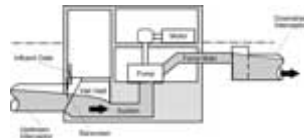
CSO map



CSO phasing graphic



Regulator Station



Pump Station



CSO warning sign  
(posted at CSO sites)

## Photos

Click on the photo or text link to view larger image of King County CSO facilities. (Year that photo was taken is in parenthesis.)

### Examples of King County CSO outfall locations



Norfolk CSO  
(1992)



King Street CSO  
(1992)



Brandon Street CSO  
(1992)



Michigan Street CSO  
(1992)



Denny Way CSO  
(1992)



Denny Way CSO  
(2004)

The outfall, pictured at left, was removed in 2003, improving the Elliot Bay shoreline.

### Examples of King County CSO Regulator Stations



[Denny Way  
Regulator Station](#)  
(2004)



[Green Roof at  
Dexter Regulator Station](#)  
(2002)



[King Street  
Regulator Station](#)  
(2005)

### Examples of King County CSO Treatment Facilities



[Carkeek Park CSO  
Treatment Facility](#)  
(1994)



[Alki CSO  
Treatment Facility](#)  
(2002)



[Elliot West CSO  
Treatment Facility](#)  
(2005)

### Examples of King County Pump Stations (in the combined sewer service area)



[Henderson Street Pump Station](#)  
(2004)



[West Seattle Pump Station](#)  
(1999)



[Interurban Pump Station](#)  
(1996)

## **Appendix B: US CSO Community Notification Programs**



**Notification Programs for CSO Communities with 30 or more CSO, or that are on West Coast**  
Communities from 2004 EPA CSO Report to Congress

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
AK	Juneau	JUNEAU, CITY & BOROUGH OF	AK0023213	3	<a href="http://www.juneau.lib.ak.us/pubworks/wastewater/cso.php">http://www.juneau.lib.ak.us/pubworks/wastewater/cso.php</a>				Text notice on website of individual overflows
CA	San Francisco	SAN FRANCISCO C & C (Public Utilities Commission) - WESTSIDE WET-WEATHER FACILITIES AND SOUTHWEST OCEAN OUTFALL (SWOO); CSOs only; Ocean side WWTP (SE WATER POLL CTL PLANT)	CA0037681 , CA0038610 , CA0037664	28	<a href="http://sfwater.org/mc_main.cfm/MC_ID/14">http://sfwater.org/mc_main.cfm/MC_ID/14</a>		<a href="http://sfwater.org/custom/lims/beachmain1.cfm/mc_id/20/MC_ID/20/MSC_ID/198">http://sfwater.org/custom/lims/beachmain1.cfm/mc_id/20/MC_ID/20/MSC_ID/198</a>	1-877-SFBEACH	Post Beaches for 3 days or until bacteria levels are OK; windsurfing and surfing communities are notified by a recorded hotline (are they called, or do they call?); Map: Reports weekly bacterial monitoring & during CSOs, beach closures, maybe when CSOs occur?
CA	Sacramento	SACRAMENTO R.C.S.D	CA0079111	4					nothing specific to CSO
CT	Hartford	HARTFORD MDC (Metropolitan District) WPCF	CT0100251	44	<a href="http://www.themdc.com/csoabatment.htm">http://www.themdc.com/csoabatment.htm</a>				Could only find limited cost and project info.
CT	Bridgeport	BRIDGEPORT-WEST WPCF, Eastside WPCF	CT0100056 , CT0101010	82					They've privatized w/US Filter - can't find info
DC	Washington	D. C. DEPT. OF PUBLIC WORKS	DC0021199	53	<a href="http://www.dcwasa.com/education/css/publicinformation.cfm">http://www.dcwasa.com/education/css/publicinformation.cfm</a>				A little hard to find but very good. Post monthly regulatory reports (very detailed) and have a quarterly newsletter; WASA is in the process of siting warning lights to advise the public about the occurrence of CSOs. One warning light will be located on the Anacostia River, and another will be located on the Potomac River. It is anticipated that the lights will have two colors. One color will be displayed when CSOs are actually overflowing, while the second color would be displayed for 24 hours after an overflow stopped.
DE	Wilmington	WILMINGTON WASTEWATER TREATMENT FACILITY	DE0020320	40	<a href="http://www.wilmingtoncso.com/CSO_home.htm">http://www.wilmingtoncso.com/CSO_home.htm</a>				Can't find reports or data
IL	Galesburg	GALESBURG SD STP	IL0023141	48					not found

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
IL	Chicago	CHICAGO CSOS	IL0045012, IL0028088, IL0028053, IL0028061)	231	<a href="http://www.mwrd.org/mo/csoapp/default.htm">http://www.mwrd.org/mo/csoapp/default.htm</a>	Event (Day) reports at: <a href="http://www.mwrdgc.dst.il.us/CSO/CSOEventSynopsisSelectD.aspx">http://www.mwrdgc.dst.il.us/CSO/CSOEventSynopsisSelectD.aspx</a> ; annual reports covering only CSOs with telemetered data - freq, vol, storm duration and rainfall	Rolling 7 days of Daily map (issued 8am of following day) showing CSO impacted waterways: <a href="http://www.mwrdgc.dst.il.us/CSO/Display.aspx">http://www.mwrdgc.dst.il.us/CSO/Display.aspx</a>		email alert listserve for CSOs and diversions; public comments on notification plan at: <a href="http://www.mwrd.org/mo/csoapp/csocomments.htm">http://www.mwrd.org/mo/csoapp/csocomments.htm</a>
IN	Fort Wayne	FORT WAYNE MUNICIPAL STP	IN0032191	50	<a href="http://www.indygo.org/eGov/City/DPW/Environment/CleanStream/Help/News/sewage_alerts.htm">http://www.indygo.org/eGov/City/DPW/Environment/CleanStream/Help/News/sewage_alerts.htm</a>			Recorded Message: (260) 427-2297	subscription email listserve
IN	Elkhart	ELKHART MUNICIPAL STP	IN0025674	36	<a href="http://www.elkhartindiana.org/content.php?id=9&amp;c_id=196">http://www.elkhartindiana.org/content.php?id=9&amp;c_id=196</a>	not found	<a href="http://www.elkhartindiana.org/general.php?id=8">http://www.elkhartindiana.org/general.php?id=8</a>	Public Works Dept. Main line listed on warning: (574)-293-2572	Warning link on homepage under the weather takes you to specific overflow warnings; signage used; no on-line data found
IN	Indianapolis	INDIANAPOLIS-BELMONT MUN. STP	IN0023183	134	<a href="http://www.indygo.org/eGov/City/DPW/Environment/CleanStream/Help/News/sewage_alerts.htm">http://www.indygo.org/eGov/City/DPW/Environment/CleanStream/Help/News/sewage_alerts.htm</a>			Recorded message: (317) 327-1643	Info is on CSO and SSO?; Email listserve
IN	South Bend	SOUTH BEND MUNICIPAL STP	IN0024520	44	<a href="http://www.southbend.in.gov/city/departments/waste_water/combined_sewer_overflow_cso.asp">http://www.southbend.in.gov/city/departments/waste_water/combined_sewer_overflow_cso.asp</a> ; <a href="http://www.southbend.in.gov/city/departments/waste_water/cso_notification.asp">http://www.southbend.in.gov/city/departments/waste_water/cso_notification.asp</a>			574.277.8515 ext. 28	email listserve and hotline provide info on when CSOs are likely to occur (not real time); website has limited information

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
IN	Kokomo	KOKOMO MUNICIPAL STP	IN0032875	37	<a href="http://209.43.125.210/departments/division.asp?fDD=17-78">http://209.43.125.210/departments/division.asp?fDD=17-78</a>				If a CSO Outfall has a discharge in a sensitive area upstream of a person or entity to be notified, the person or entity will be notified via the previously agreed upon contact method(s). The notification will occur within 24 hours after the CSO Outfall discharge. The notice will include that a discharge has occurred and that bodily contact with the receiving stream should be avoided for at least 24 hours after the notice was issued or up to 24 hours after the precipitation event causing the CSO event has ceased.
IN	Evansville	EVANSVILLE STP--WESTSIDE	IN0032956	18	<a href="http://cso.evansville.gov/">http://cso.evansville.gov/</a>				ORSANCO member; email listserve "to notify residents when existing or predicted weather conditions are likely to cause combined sewer overflows "
KS	Kansas City	KANSAS CITY KS WWTP #1	KS0038563	58					
KY	Louisville	MSD MORRIS FORMAN STP	KY0022411	121	<a href="http://www.msdlouisville.org/programs/cso.htm">http://www.msdlouisville.org/programs/cso.htm</a>				Basic info
MA	Chicopee	CHICOPEE W P C (South Hadley Water Pollution Control Facility? In Chicopee)	MA0101508	40; 4 if S. Hadley Plant					not found
MA	Boston	BOSTON WATER & SEWER COMM - CSO	MA0101192	53	<a href="http://www.bwsc.org/tab_menu/6frameset4.htm">http://www.bwsc.org/tab_menu/6frameset4.htm</a> ; <a href="http://www.mwra.state.ma.us/03sewer/html/sewcso.htm">http://www.mwra.state.ma.us/03sewer/html/sewcso.htm</a>				
MA	New Bedford	NEW BEDFORD W T P	MA0100781	35	<a href="http://www.ci.newbedford.ma.us/Nav3.htm">http://www.ci.newbedford.ma.us/Nav3.htm</a>	none found			They state they do not have information on volume and events

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
MA	Boston	(Massachusetts Water Resources Authority - serves Boston, Cambridge, Somerville, and Chelsea)	MA0103284 (Deer Island Treatment Plant, Cottage Farm Combined Sewer Overflow (CSO) facility, Prison Point CSO facility, Somerville Marginal CSO facility, Constitution Beach CSO facility, Fox Point CSO facility, Commercial Point CSO facility )	250	<a href="http://www.mwra.state.ma.us/03sewer/html/sewco.htm">http://www.mwra.state.ma.us/03sewer/html/sewco.htm</a>	Annual Rept. Focusing on construction progress; Monthly DMRs for CSO tx facilities; lots of WQ monitoring			Couldn't find info of CSO volumes and events.
ME	Lewiston	LEWISTON, CITY OF	ME0100994	36					No sewer info
ME	Portland	PORTLAND WATER DISTRICT (5 treatment plants)	ME0102075	40					No mention of CSOs
MI	Rouge River Alliance			148 in urban areas, don't list total	<a href="http://www.rouge river.com/index.html">http://www.rouge river.com/index.html</a>		water quality info		Lots of assessments of project performance
MI	Lansing	LANSING WWTP	MI0023400	31	<a href="http://www.cityoflansingmi.com/pubserv/pubeng/cso_project.jsp">http://www.cityoflansingmi.com/pubserv/pubeng/cso_project.jsp</a>	none found			no notification info found
MI	Birmingham	BIRMINGHAM CSO	MI0025534	33	<a href="http://www.ci.birmingham.mi.us/home/index.asp?page=456">http://www.ci.birmingham.mi.us/home/index.asp?page=456</a>				States program is complete - no other info on site.

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
MI	Detroit	DETROIT WWTP	MI0022802	78	<a href="http://www.ci.detroit.mi.us">www.ci.detroit.mi.us</a>				NPDES permit specifies notice ASAP to agencies and newspapers; very detailed NPDES permit at <a href="http://www.dwsd.org/about/NPDES.pdf">http://www.dwsd.org/about/NPDES.pdf</a>
NJ	Elizabeth	ELIZABETH CITY OF (Joint Meeting of Essex and Union Counties)	NJ0108782	33					No info on CSO on either City or Joint Meeting sites
NJ	Paterson	PATERSON CITY OF	NJ0108880	31					No info on CSO on either City or Joint Meeting sites
NJ	Newark	NEWARK CITY OF	NJ0108758	30	<a href="http://www.ci.newark.nj.us/Water/sewer.htm">http://www.ci.newark.nj.us/Water/sewer.htm</a> ; <a href="http://www.pvsc.com/industrial/cso.htm">http://www.pvsc.com/industrial/cso.htm</a> ; <a href="http://newarkcso.info/index.htm">http://newarkcso.info/index.htm</a>				Limited info on CSO - emphasis on public participation plan; part of New Jersey CSO Group
NJ	Camden City	CAMDEN CITY OF	NJ0108812	31					
NJ	Bayonne	BAYONNE CITY OF	NJ0109240; NJ0105023 CSO only	33	<a href="http://www.pvsc.com/industrial/cso.htm">http://www.pvsc.com/industrial/cso.htm</a>				Part of New Jersey CSO Group
NY	Syracuse	METROPOLITAN SYRACUSE WWTP	NY0027081	56	<a href="http://www.ongov.net/WEP/we1802.html">http://www.ongov.net/WEP/we1802.html</a>				Use signs; limited info on website
NY	Buffalo	BIRD ISLAND WWTP	NY0028410	58					Very little info
NY	New York City	Total 14 plants		494					Little info on this site; <a href="http://www.nyc.gov/html/dep/html/wastewater.html">http://www.nyc.gov/html/dep/html/wastewater.html</a>
NY	Utica	UTICA (C) COMB'D SEWER OVERFLO	NY0031429	82					No info on CSO
NY	Troy	COMBINED SEWER OVERFLOWS	NY0099309	49					Part Albany Pool Project w/other utilities - early in plan development process; <a href="http://cdrpc.org/CSO.html">http://cdrpc.org/CSO.html</a>
OH	Cleveland	NORTHEAST OHIO REGIONAL SEWER	OH0043991	126	<a href="http://www.neorsd.org/internet/do/viewDetails.do?page_id=51">http://www.neorsd.org/internet/do/viewDetails.do?page_id=51</a>		<a href="http://www.neorsd.org/cmweb/detail/53/CSO-Occurrences.pdf">http://www.neorsd.org/cmweb/detail/53/CSO-Occurrences.pdf</a>		Post a pdf listing overflows by day on their website - it had been updated the day I checked; Post most CSOs with signs, but do Edgewater beach CSOs when events happen and leave for 72 hrs.
OH	Defiance	DEFIANCE, CITY OF	OH0024899	44	<a href="http://www.cityofdefiance.com/WPC/index.htm">http://www.cityofdefiance.com/WPC/index.htm</a>				little info on overflows - no map or data or report, just LTCP

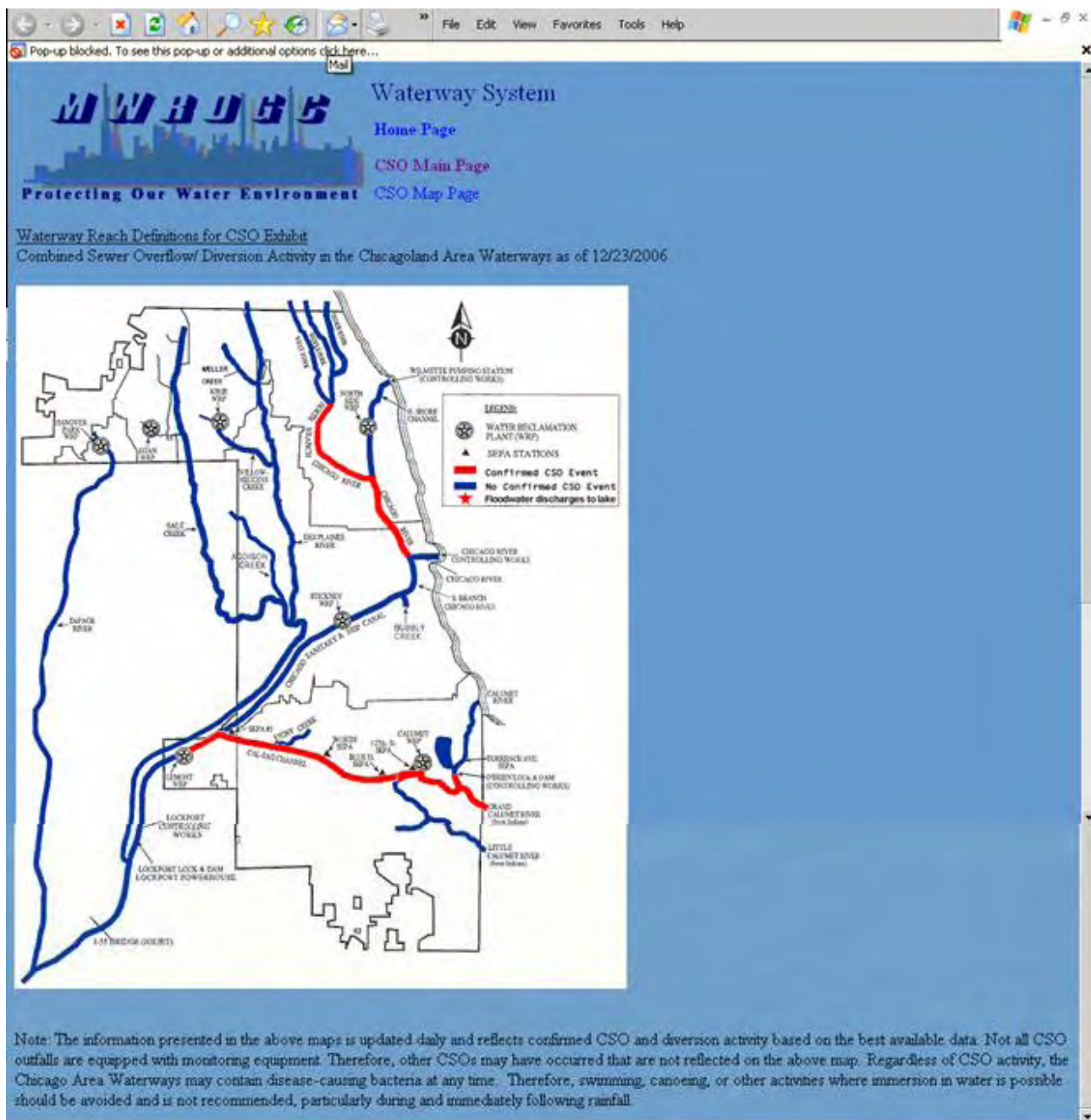
State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
OH	Akron	AKRON, CITY OF	OH0023833	38	<a href="http://www.ci.akron.oh.us/PubUtil/ip/s/index.htm">http://www.ci.akron.oh.us/PubUtil/ip/s/index.htm</a>				little info; nothing on notification
OH	Toledo	TOLEDO, CITY OF	OH0027740	37	<a href="http://www.toledowaterwaysinitiative.com/index.asp">http://www.toledowaterwaysinitiative.com/index.asp</a>	<a href="http://www.toledowaterwayinitiative.com/sewer_overflows.asp">http://www.toledowaterwayinitiative.com/sewer_overflows.asp</a>			Lists time, date and duration by site; also includes maps; no info on when info is updated; signage used
OH	Elyria	ELYRIA, CITY OF	OH0025003	31					May have separated their system; <a href="http://www.elyriapublicutilities.com/wastewater.shtml">http://www.elyriapublicutilities.com/wastewater.shtml</a>
OH	Cincinnati	Metropolitan Sewer District of Greater Cincinnati (MSD-GC)	OH0105457	212, ~69 shown on map	<a href="http://www.msdbg.org/wetweather/">http://www.msdbg.org/wetweather/</a>			Recorded Message: (513) 244-5116	ORSANCO Member; Hotline and email (list serve) alerts when rain greater than 0.25 in or river levels high
OH	Youngstown	YOUNGSTOWN, CITY OF	OH0028223 ; 3PE0006*K D in consent decree	80; consent decree shows 39					<a href="http://www.cityofyoungstownoh.org/departments/waste/default.asp">http://www.cityofyoungstownoh.org/departments/waste/default.asp</a> ; no info
OH	Tiffin	TIFFIN, CITY OF	OH0052949	39					Limited city website - no info on CSOs; do have CSO req. in permit
OH	Belmont County	EAST OHIO REG. WASTEWATER	OH0049999	47	<a href="http://www.eorwa.com/eorwa_001.htm">http://www.eorwa.com/eorwa_001.htm</a>		<a href="http://www.eorwa.com/eorwa_005.htm">http://www.eorwa.com/eorwa_005.htm</a>		Minimal info; Only a notice that should avoid water contact downstream of CSOs for 3 days after rain; and there are signs
OH	Springfield	SPRINGFIELD, CITY OF	OH0027481	58					No info on CSOs; <a href="http://www.ci.springfield.oh.us/depts/service/wwtp/">http://www.ci.springfield.oh.us/depts/service/wwtp/</a>
OR	Astoria	ASTORIA, CITY OF	OR0027561	38					no info on CSOs found; <a href="http://www.astoria.or.us/Departments/PublicWorks/tabid/1581/Default.aspx">http://www.astoria.or.us/Departments/PublicWorks/tabid/1581/Default.aspx</a>
OR	Portland	PORTLAND, CITY OF	OR0026905	55	<a href="http://www.portlandonline.com/bes/index.cfm?c=dbada">http://www.portlandonline.com/bes/index.cfm?c=dbada</a>	post annual reports on website			Environmental Services issues summer overflow advisories each time it rains between mid-May and mid-October when recreational use of the river is at its highest. During the rainy season, from late fall through the winter and early spring, a blanket advisory goes into effect. CSO warning signs on the river will remain open this winter. The summer advisories will resume in mid-May. Also post SSO info on website when they occur, plus have subscription email listserve for SSOs.
OR	Corvallis	CORVALLIS, CITY OF	OR0026361	6	<a href="http://www.ci.corvallis.or.us/index.php?option=content&amp;task=view&amp;id=428&amp;Itemid=361">http://www.ci.corvallis.or.us/index.php?option=content&amp;task=view&amp;id=428&amp;Itemid=361</a>		Notification procedures: <a href="http://www.ci.corvallis.or.us/index.php?option=com_content&amp;task=view&amp;id=448&amp;Itemid=389">http://www.ci.corvallis.or.us/index.php?option=com_content&amp;task=view&amp;id=448&amp;Itemid=389</a>		Press releases and sign posting for overflows; Program substantially complete in 2001



State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
PA	Wilkes-Barre	WYOMING VALLEY SANITARY AUTHORITY	PA0026107	50					no CSO info found; <a href="http://www.wvsa.org/index.htm">http://www.wvsa.org/index.htm</a>
PA	Philadelphia	PHILA WATER DEPT-, NE, S.W, SE STPs	PA0026662 , PA0026671 , PA0026689	35					no info; <a href="http://www.phila.gov/water/contact_us.html">http://www.phila.gov/water/contact_us.html</a>
PA	Ralpho Twp	SHAMOKIN-COAL TWP JNT SEW AUTH	PA0027324	63					none found for either the Authority or the Township
PA	Greensburg	GREATER GREENSBURG SEW AUTH	PA0027456	41					no CSO info
PA	Pittsburgh	ALLEGHENY COUNTY SANITARY AUTH	PA0025984	279					Part of Alcosan; <a href="http://www.pgh2o.com/index.htm">http://www.pgh2o.com/index.htm</a>
PA	Harrisburg	HARRISBURG AUTHORITY	PA0027197	65					no CSO info; <a href="http://www.harrisburgpa.gov/publicWorks/sewerage/">http://www.harrisburgpa.gov/publicWorks/sewerage/</a>
PA	Erie	ERIE WASTEWATER TREATMENT PLAN	PA0026301	56					no CSO info; <a href="http://www.cityoferiepa.com/Default.aspx?tabid=34">http://www.cityoferiepa.com/Default.aspx?tabid=34</a>
PA	Pottsville	GREATER POTTSVILLE AREA SEWER AUTHORITY	PA0043885	31					No real CSO info: "The City has investigated the feasibility and evaluated alternatives for separating the combined storm/sanitary collection system. However, due to prohibitive costs and budget concerns, proposed projects have never fully materialized. Only some small separation projects have been completed to date"; <a href="http://www.ci.pottsville.pa.us/html/cp8.htm">http://www.ci.pottsville.pa.us/html/cp8.htm</a>
PA	Scranton	SEWER AUTH OF CITY OF SCRANTON	PA0026492	70					no website for Authority; was privatized and recently bailed on the contract
RI	Providence, North Providence, Johnston, Part of Cranston	NARRAGANSETT BAY COMM (Fields Plant, also has Bucklin Point)	RI0100315	70	<a href="http://narrabay.com/CSO.asp">http://narrabay.com/CSO.asp</a>	Little overflow info; Water-quality focused			Do quarterly CSO public forums
VA	Richmond	RICHMOND CITY OF	VA0063177	32	<a href="http://www.ci.richmond.va.us/departments/publicutilities/cso.aspx">http://www.ci.richmond.va.us/departments/publicutilities/cso.aspx</a>	Last annual rept (2004) has dead link; no other info			

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
WA	Anacortes	ANACORTES, CITY OF	WA0020257	3	http://www.cityofanacortes.org/wwtp.htm	download at http://www.cityofanacortes.org/WWTP/cso.htm			Only mention of CSO is the reports
WA	Everett	EVERETT, CITY OF	WA0024490	13	http://www.everettwa.org/default.aspx?ID=77				No info on CSOs except if a project is underway
WA	Snohomish	SNOHOMISH, CITY OF	WA0029548	2	http://www.ci.snohomish.wa.us/EngineeringPublicWorks.htm#Wastewater%20Collection				mention CSOs and plan to do separations, but no other info
WA	King County - West Point	WEST POINT TREATMENT PLANT	WA0029181	34	http://dnr.metrokc.gov/WTD/cso/	map, all reports, and some data available			
WA	Bremerton	BREMERTON, CITY OF	WA0029289	16	<a href="http://www.cityofbremerton.com/content/cso_csos.html">http://www.cityofbremerton.com/content/cso_csos.html</a>				graph of annual volumes & rainfall; no reports or other data
WA	Spokane	SPOKANE CITY OF	WA0024473	24	http://www.spokanewastewater.org/csoinfo.asp	monthly and annual repts on same web page as real-time notification	<a href="http://www.spokanewastewater.org/csoupdate.asp">http://www.spokanewastewater.org/csoupdate.asp</a>		This site was developed to provide information about SSOs, but also provides information on CSOs. It is updated manually by an operator when there is time to verify the information. There can be a lag time of up to 12 hours between the overflow event and the notification. Information is accessed through a table, which then links to site specific maps.
WA	Seattle	SEATTLE, CITY OF	WA0024503	118					Little CSO information
WA	Bellingham	BELLINGHAM, CITY OF	WA0023744	2					no info; no NPDES permit?
WA	Port Angeles	PORT ANGELES, CITY OF	WA0023973	4	https://www.cityofpa.us/pwCSO.htm	Monthly and annual reports, monitoring data are posted			Post signs; notify local agencies when there are overflows
WA	Mount Vernon	MOUNT VERNON, CITY OF	WA0024074	2					Little CSO information
WA	Olympia	OLYMPIA, CITY OF (LOTT)	WA0037061	1					No discharges since 1991; no CSO info on website

State	City	Permittee Name	NPDES Permit #	# CSO Outfalls	CSO Website	Reports Available	Notification Website	CSO Hotline	Notes
WI	Milwaukee	MILWAUKEE MSD - JONES ISLAND	WI0036820	120	<a href="http://www.mmsd.com/wastewater/treatment/combined_sewers.cfm">http://www.mmsd.com/wastewater/treatment/combined_sewers.cfm</a>		Map: <a href="http://www.mmsd.com/news/overflow_advisory.cfm">http://www.mmsd.com/news/overflow_advisory.cfm</a> ; Text on storage and treatment facilities volumes, and map on rainfall: <a href="http://www.mmsd.com/news/storm_update.cfm">http://www.mmsd.com/news/storm_update.cfm</a> ; Rainfall: <a href="http://www.mmsd.com/news/rain_gauge_data.cfm">http://www.mmsd.com/news/rain_gauge_data.cfm</a>		Annual totals CSO & SSO reported only; CSO Plan is part of a watershed-based initiative (WQI)
WV	Clarksburg	Clarksburg Sanitary Board	WV0023302	84	<a href="http://www.cityofclarksburgwv.com/wastewater.cfm?section=cso">http://www.cityofclarksburgwv.com/wastewater.cfm?section=cso</a>				Only a general public advisory on the CSO webpage <a href="http://www.cityofclarksburgwv.com/wastewater.cfm?section=cso">http://www.cityofclarksburgwv.com/wastewater.cfm?section=cso</a>
WV	Grafton	Grafton, City of	WV0021822	34					
WV	Charleston	Charleston, City of	WV0023205	61	<a href="http://www.csbwv.com/Combined%20Sewer%20System.htm#CSO_Discharge_Alert_">http://www.csbwv.com/Combined%20Sewer%20System.htm#CSO_Discharge_Alert_</a>				Minimal Info on-line; "The Public Notification Program includes a written plan, educational information mailed with bills, signs at CSO outlets, press releases, and school presentations"
WV	Morgantown	MORGANTOWN Utility Board	WV0023124	40	<a href="http://www.mub.org/mub_mtnwastewater.htm">http://www.mub.org/mub_mtnwastewater.htm</a>	LTCP on site			Very little info on site
WV	Wheeling	Wheeling, City of	WV0023230	219					No info
WV	Fairmont	FAIRMONT, CITY OF	WV0023353	43	<a href="http://www.cityoffairmontutilities.org/cso.htm">http://www.cityoffairmontutilities.org/cso.htm</a>				Statement that CSOs may occur during rain



# Milwaukee Metropolitan Sewerage District

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260 West Seaboth St.  
Milwaukee, WI 53204

## MMSD Overflow Advisory

[MMSD Storm Update](#)

This public advisory page is updated whenever a sewage overflow into area waterways is confirmed from the Milwaukee Metropolitan Sewerage District's (MMSD) sewer system. The information on this page is updated regularly based on the best available data, and is therefore, subject to change.

The page does NOT track overflows that may occur from sewer systems owned by the 28 communities served by MMSD.

**Important:** Disease causing microorganisms may be present in area waterways even if no sewer overflows have occurred. Bacteria from polluted storm water runoff also can pose a health risk. You should avoid human contact with area waterways during and after rain storms because that is when the health risk is greatest.

Last updated: Tuesday, July 11, 2006 7:41 AM

**LEGEND**

- CONFIRMED OVERFLOW AREA
- RIVERS

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providing water treating wastewater generating power

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**Beach Water Quality**

Shoreline bacteria monitoring is routinely conducted at 14 locations around the perimeter of San Francisco. All of San Francisco's beaches are monitored, including three stations at Candlestick Point Recreation Area, two stations at Aquatic Park Beach, two stations along Crissy Field Beach, three stations at Baker Beach, one location at China Beach and three locations along Ocean Beach at the foot of Balboa, Lincoln and Sloat. Samples are collected weekly year round. Additional monitoring is conducted whenever a combined sewer overflow (CSO) occurs from the City's sewer system. CSOs only occur during heavy rain events. In the event of a CSO samples may also be collected along Ocean Beach at the foot of Pacheco, Vicente and at Fort Funston in addition to the routine sample sites.

Click on Sampling Points for Bacteria Water Quality

**Legend**

- Beach Open
- Beach Advisory
- Beach Posted
- Beach Closed
- Not Routinely Sampled
- Combine Sewer Overflow (Call 1-877-SFBEACH for detail)

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**Candlestick Point State Recreation Area**

Click on Sampling Point for Bacteria Water Quality

**Legend**

- Beach Open
- Beach Advisory
- Beach Posted
- Beach Closed
- Not Routinely Sampled
- Combine Sewer Overflow (Call 1-877-SFBEACH for detail)

The Candlestick Point Recreation Area located at the southeast edge of San Francisco County is part of the State of California Parks System. This recreation area can be reached from the 101 Bayshore Freeway or via Third Street to Jamestown Avenue. Offering two fishing piers and walking and bicycling trails with spectacular views of San Francisco Bay, this area is a popular spot for fishing, boardsailing, strolling, and picnicking. Three sites are sampled for bacteria water quality.

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City of Spokane  
**Wastewater Management**

**Combined Sewer Overflow Update**

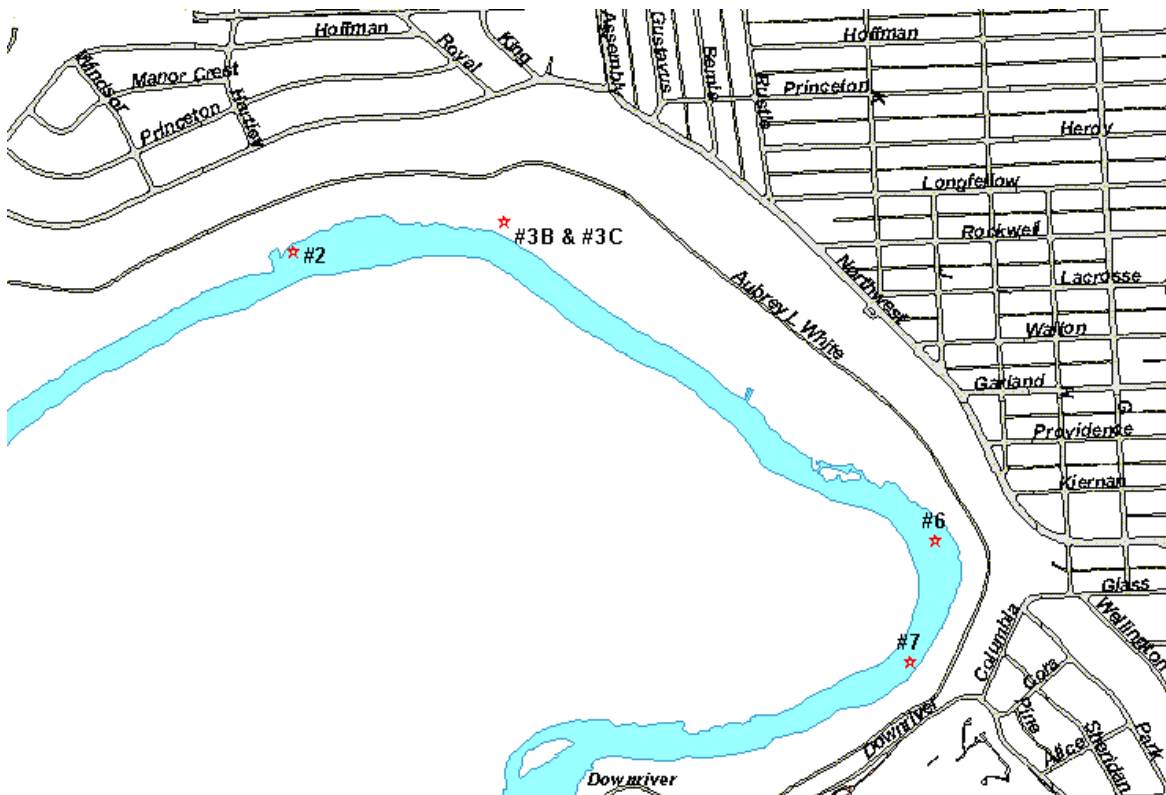
**Real Time Combined Sewer Overflow Monitoring:**

The table below reflects the current operational status of the Combined Sewer Overflow (CSO) monitoring sites in the City of Spokane. As of Dec 21, 2006 there are 26 monitoring sites. Nine of the monitoring sites are priority sites. If a site is flashing, that represents that a CSO overflow event is occurring or has occurred in the last 48 hours. The date and time listed is the start time of the overflow event and will automatically shut off after 48 hours.

All residents and visitors to the area, as a precaution, should avoid water contact sports and activities (ie. swimming, boating, fishing, etc...) during rainfall and snowmelt conditions that result in a discharge (CSO overflow) as observed in the field or as indicated on the table below.

Also, residents can help locate and solve sewer system problems by calling (509) 625-7900 whenever they observe a discharge from the CSO pipe to the river (especially during the summer months). Just make sure to note the CSO two (2) digit number on the sign located next to the outfall pipe so City staff will know exactly where the overflow occurred. The City will then confirm whether the discharge is from a combined sewer system or stormwater system.

CSO#	Outfall Location	Status	Overflow Date & Time
CSO2	0.5 miles downstream of RPWRF <a href="#">map</a>	IS	none
CSO6	0.25 miles upstream of RPWRF <a href="#">map</a>	IS	12/27/2006 8:14:33 AM
CSO6D	0.25 miles upstream of RPWRF <a href="#">map</a>	IS	12/27/2006 8:17:47 AM
CSO7	0.4 miles upstream of RPWRF <a href="#">map</a>	IS	12/27/2006 8:23:17 AM
CSO10	0.1 miles downstream from T.J.Meenach Bridge <a href="#">map</a>	IS	12/27/2006 8:04:50 AM
CSO12	0.55 miles upstream of T.J.Meenach Bridge <a href="#">map</a>	IS	12/27/2006 7:50:44 AM
CSO14	2.0 miles upstream of T.J.Meenach Bridge <a href="#">map</a>	IS	12/27/2006 8:19:04 AM
CSO15	2.5 miles upstream of T.J.Meenach Bridge <a href="#">map</a>	IS	12/27/2006 8:10:43 AM
CSO19	High Bridge (East Side) <a href="#">map</a>	IS	none
CSO20	2.65 miles upstream of High Bridge <a href="#">map</a>	IS	none



Improving Our Sewer System  
**Toledo Waterways Initiative**

HOME  
NEWS  
PROJECTS  
LTCP  
WEB CAM  
PUBLIC INVOLVEMENT  
SEWER RATES  
CONSTRUCTION ALERTS  
PARTNERS  
CALENDAR  
WORKSHOP SCHEDULED  
CONSENT DECREE  
**SEWER OVERFLOWS**  
CONTACT US  
LINKS  
SEARCH SITE  
PRINTER FRIENDLY

POTENTIAL BIDDERS  
CLICK HERE

CITY OF TOLEDO  
Department of Public Utilities

SEAL OF THE CITY OF TOLEDO  
JANUARY • 1790

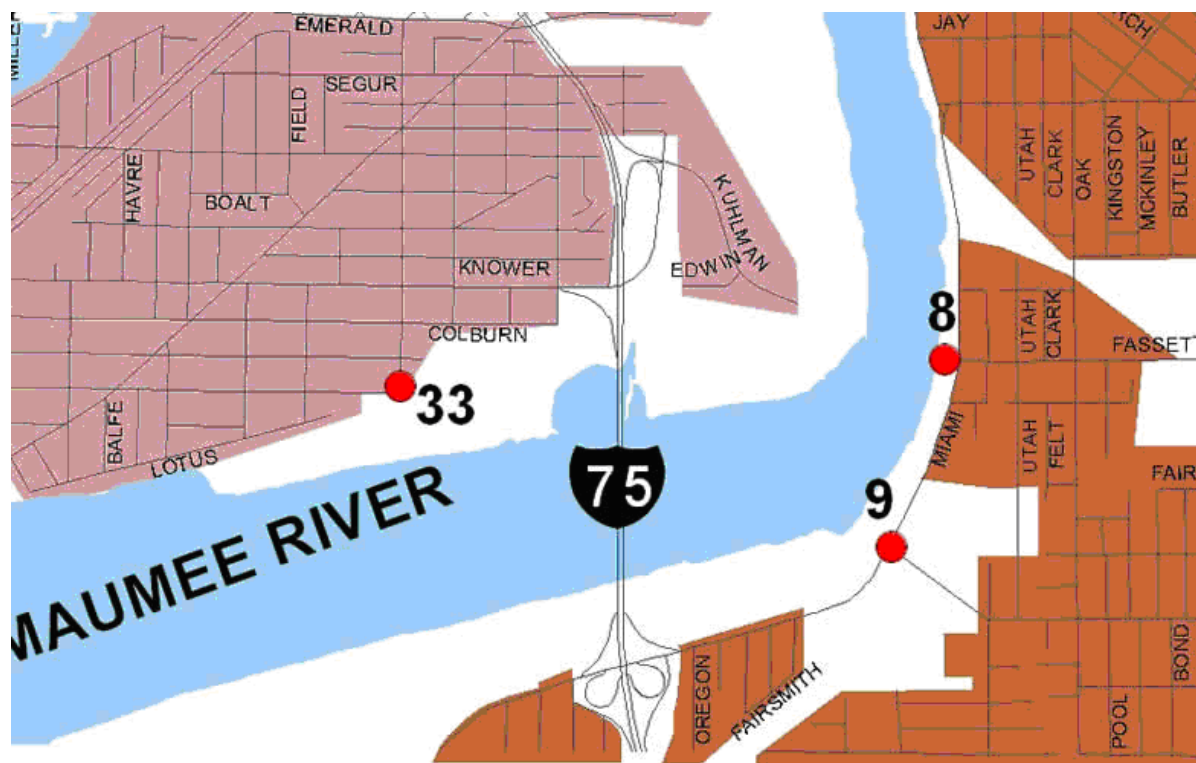
### SEWER OVERFLOW REPORT

Combined sewer overflows (CSOs) occur when storm water mixed with sewage overflows into the Maumee River, Ottawa River and Swan Creek. The City is working with the U.S. and Ohio EPAs on a Long Term Control Plan, which identifies how it will address CSOs.

The information below lists combined sewer overflows by date, location and duration. You may click on the CSO number below, or a CSO dot on the map, to see a more detailed locator map.

**November - December 2006**

12/26/2006	<a href="#">CSO # 33</a>	Maumee, 232 minutes
12/25/2006	<a href="#">CSO # 64</a>	Lockwood, 110 minutes
12/25/2006	<a href="#">CSO # 62</a>	Windemere, 130 minutes
12/25/2006	<a href="#">CSO # 46</a>	Hawley, 70 minutes
12/25/2006	<a href="#">CSO # 33</a>	Maumee, 657 minutes
12/25/2006	<a href="#">CSO # 26</a>	Magnolia, 33 minutes
12/25/2006	<a href="#">CSO # 9</a>	Oakdale, 110 minutes
12/25/2006	<a href="#">CSO # 7</a>	Nevada, 130 minutes
12/25/2006	<a href="#">CSO # 6</a>	Main, 100 minutes
12/22/2006	<a href="#">CSO # 62</a>	Windemere, 110 minutes
12/22/2006	<a href="#">CSO # 6</a>	Main, 70 minutes
12/22/2006	<a href="#">CSO # 7</a>	Nevada, 100 minutes
12/22/2006	<a href="#">CSO # 9</a>	Oakdale, 90 minutes
12/22/2006	<a href="#">CSO # 26</a>	Magnolia, 33 minutes
12/22/2006	<a href="#">CSO # 33</a>	Maumee, 525 minutes
12/22/2006	<a href="#">CSO # 48</a>	Hillside, 6 minutes
12/22/2006	<a href="#">CSO # 64</a>	Lockwood, 90 minutes
12/22/2006	<a href="#">CSO # 46</a>	Hawley, 50 minutes
12/21/2006	<a href="#">CSO # 33</a>	Maumee, 571 minutes
12/21/2006	<a href="#">CSO # 9</a>	Oakdale, 100 minutes
12/21/2006	<a href="#">CSO # 7</a>	Nevada, 120 minutes
12/21/2006	<a href="#">CSO # 26</a>	Magnolia, 31 minutes
12/21/2006	<a href="#">CSO # 48</a>	Hillside, 23 minutes
12/21/2006	<a href="#">CSO # 6</a>	Main, 90 minutes
12/21/2006	<a href="#">CSO # 62</a>	Windemere, 120 minutes
12/21/2006	<a href="#">CSO # 46</a>	Hawley, 60 minutes
12/21/2006	<a href="#">CSO # 64</a>	Lockwood, 100 minutes



## **Appendix C: CSO Public Notification Program Review Draft Stakeholder Interview Questions**

# Draft CSO Notification Program Stakeholder Interview Questions

1. Who manages CSOs in the area?
2. What are the purposes of CSO notification?
3. Where can you find information on:
  - The locations of the CSOs
  - Health risks from CSOs
  - Overflow volumes and number of overflows in the most recent year
  - CSO control progress to date
  - Control projects in construction
  - Future projects
  - Projects to clean up contaminated sediments
  - People to contact for more information
3. Have you looked at the County's CSO Control Program Website?
  - The following information can be found on the website: (list and walk through)
  - Is this information useful to you as a member of the public?
  - Who do you think uses this kind of website and what kind of information are they looking for?
  - Is there any additional information you would like to see on the website?
  - How does the format of the website work for you?
4. Have you looked at the CSO Control Program brochure?
  - Who is this brochure useful to?
  - Is there any additional information you would like to see included in the brochure?
5. Have you looked at the Seattle-King County Health Department CSO website?
  - The following information can be found on the website:  
(demonstrate where possible, otherwise list and walk through some screen shots)
  - Is this information useful to you as a member of the public?
  - Who do you think uses this kind of website and what kind of information are they looking for?
  - Is there any additional information you would like to see included in the site?
6. Have you looked at the Health Department CSO brochure?
  - Who is this brochure useful to?
  - Is there any additional information you would like to see included in the brochure?

7. Who would call the number on the CSO warning sign and what types of information would they want?
  - Does having the Health Department answer questions improve confidence in the information?
  - Is a phone number useful if it is not staffed 24/7, but allows a message to be left with daily follow-up?
8. King County is exploring the feasibility of providing more current information about CSO overflow status.
  - Who would this information be useful to?
  - How quickly does overflow status information need to be available?
    - Is speed or accuracy (confirming that an overflow is really occurring) most important?
  - What provides most useful notification – a map identifying impacted waterways, a map with status indicators at CSO locations, or data tables?
    - How much information should be on a map?
    - Which of these maps works better?
  - Does the public need to know the volume of an overflow to make choices about their water use?
  - Is knowing how long a time has passed since an overflow ended useful in making choices about water use?
  - How should the County communicate about the City CSOs when we don't have information on their overflow status?
  - How should the County communicate about other municipal and private storm drains that discharge into local water bodies?
  - How should the County communicate about the few sites where we cannot provide current information (they are monitored by meters that must be manually downloaded)?
  - If a CSO is treated, disinfected and meets water quality standards does it need to be included on an overflow warning map?
    - If yes, how can we communicate the difference between it and an untreated discharge?

## **Appendix D: Completed and Scheduled CSO Contacts, 2007-08 (as of July 1, 2007)**



## CSO Program Public Involvement Contact Log

As of June 29, 2007

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Adobe	Bill Blau (Facilities Manager)	7/1/2007	<a href="mailto:bblau@adobe.com">bblau@adobe.com</a>	206-675-7000	Adobe Systems Incorporated 801 N. 34th Street Seattle, WA 98103	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Agua Verda Paddle Club and Café	Rey Lopez (co-owner)	7/1/2007	<a href="mailto:kayaking@aguaverde.com">kayaking@aguaverde.com</a>	206-819-0135	1303 NE Boat St. Seattle, WA 98105	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Alki Community Council (MT on agenda 3/15/07)		3/15/2007				Tuttle	7/07 Project brochure	Update on Asset Mgmt and CSO projects	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Argosy Cruises	Brock Gilman (Lakes Director)	7/1/2007	<a href="mailto:brockg@argosycruises.com">brockg@argosycruises.com</a>		1101 Alaskan Way Pier 55 Suite 201 Seattle, WA 98101	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Army Corps of Engineers Ballard Locks	Dru Butterfield	7/1/2007			Administrative Offices 3015 NW 54th St Seattle, WA 98107	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Ballard District Council	Mary Hurley	7/1/2007	bregards@speakeasy.net	783-4562		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Ballard District Council	Rob Mattson	7/1/2007	<a href="mailto:rob.mattson@seattle.gov">rob.mattson@seattle.gov</a>	206-648-4060		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Ballard NW Senior Center	Ann Riley	7/1/2007		206-297-0403	5429 - 32nd Ave NW Seattle, WA 98107	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Belltown Community Council	Zander Batchelder, President	5/8/2007	<a href="mailto:ZanderB@AOL.Com">ZanderB@AOL.Com</a>			D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Blue Ridge Community Club	Udo Reich, President (outgoing)	2/12/2007		The Club's phone number is (206) 784-3868 Udo Reich's cell phone number is (206) 234-4768		Kauffman		Briefing on North Beach project	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Blue Ridge Community Club	Udo Reich, President	5/14/2007		The Club's phone number is (206) 784-3868 Udo Reich's cell phone number is (206) 234-4768		Kauffman , Dittmar	7/07 North Beach Project brochure	Introduce N. Beach CSO project ; more details about nature/scope of problem	yes			yes			
Boeing Windsurfing Club	Dick Desler	7/1/2007				Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Carkeek Park Advisory Committee	Fran Clifton, Chair; Belinda Chin, Carkeek Park	3/26/2007	<a href="mailto:belinda.chin@seattle.gov">belinda.chin@seattle.gov</a> ; <a href="mailto:carkeek.park@seattle.gov">carkeek.park@seattle.gov</a>	206-684-0877		Kauffman , Phillips	7/07 North Beach Project brochure	Brief council on N. Beach CSO project and opportuni	yes			yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								ties for public input, relation to Carkeek Park							
Carkeek Park Advisory Committee	Nancy Malmgren	10/26/2006		363-4116		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Carkeek Park Advisory Committee	Nancy Malmgren	7/1/2007		363-4116		Kauffman	7/01/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Carkeek Park Earth Day Celebration	Nancy Malmgren	4/21/2007				E. Peterson, D. Marsano		CSO treatment plant tours	yes			yes			About 75 people attended
Carkeek Watershed Community Action Project	Nancy Malmgren	7/1/2007	N/A	363-4116		Kauffman		Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Cascade Bicycle Association	David Hiller, Advocacy Director	5/8/2007	<a href="mailto:david.hiller@cascadebicycleclub.org">david.hiller@cascadebicycleclub.org</a>	206-522-9479		D. Marsano		Notify about proposed remediation					yes		

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								on at Denny Way CSO							
Chandler's Crab House?						Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Delridge Neighborhood District Council	Paul Fischburg	7/1/2007	paulf@dnda.org	923-0917		Kauffman	6/29/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Department of Ecology	Karen Burgess, Permit Manager	10/26/2006	<a href="mailto:kbur461@ecy.wa.gov">kbur461@ecy.wa.gov</a>			Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Department of Ecology	Karen Burgess, Permit Supervisor	7/10/2007	<a href="mailto:kbur461@ecy.wa.gov">kbur461@ecy.wa.gov</a>			Cooper, Huber, Phillips, Pitts	6/29/07 Duwamish & Ship Canal Brochures	Update on Program - Plan Update, Notification, Alki Compliance and Design Targets	yes	yes	yes	yes		yes	Briefing in preparation for 8/9 meeting

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Department of Ecology	Karen Burgess, Permit Supervisor	8/9/2007	<a href="mailto:kbur461@ecy.wa.gov">kbur461@ecy.wa.gov</a>			Cooper, Huber, Phillips, Pitts, Wharton, True		Discuss Design Targets	yes			yes			Follow up to 7/10 meeting
Department of Ecology	Mark Henley, Permit Manager	7/10/2007	<a href="mailto:mhen461@ecy.wa.gov">mhen461@ecy.wa.gov</a>			Cooper, Huber, Phillips, Pitts	6/29/07 Duwamish & Ship Canal Brochures	Update on Program - Plan Update, Notification, Alki Compliance and Design Targets	yes	yes	yes	yes		yes	Briefing in preparation for 8/9 meeting
Department of Ecology	Mark Henley, Permit Manager	8/9/2007	<a href="mailto:mhen461@ecy.wa.gov">mhen461@ecy.wa.gov</a>			Cooper, Huber, Phillips, Pitts, Wharton, True		Discuss Design Targets	yes			yes			Follow up to 7/10 meeting
Divers Institute of Technology	John Paul Johnston	7/1/2007	N/A	634-8377	PO Box 70667 Seattle, WA 98107-0667	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Duwamish River Clean up Coalition	BJ Cummings	10/26/2006	<a href="mailto:bjcummings@pugetsound.org">bjcummings@pugetsound.org</a>	(206) 277-3811		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Duwamish River Clean up Coalition	BJ Cummings	1/4/2007	<a href="mailto:bjcummings@pugetsound.org">bjcummings@pugetsound.org</a>	(206) 277-3811		K. Huber, J. Phillips	6/29/07 Duwamish Brochure	Discuss NPDES permit comment	yes	yes	yes	yes	yes	yes	Huber email Notification Folder 1/18/07; Flyer



Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								s and CSO concerns							has "tear off" return mailer, website address, and contact name, phone number and email
Duamish River Clean up Coalition	BJ Cummings, Director	5/8/2007	bjcummings@pugetsound.org	(206) 954-0218		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Duamish Tribe	Jim Rasmussen	10/26/2006	budsjazzrecords@aol.com	431-1582		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Duamish Tribe	Jim Rasmussen	7/1/2007	budsjazzrecords@aol.com	431-1582		Kauffman	6/29/07 Duamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
East Ballard Community Association	Thomas Whittemore	7/1/2007	thomas@whittemore.org	390-9606 cell		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Eastlake Business Association	Chris Hughes	7/1/2007		206-726-3208		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Eastlake Community Council	Chris Leman	7/1/2007	<a href="mailto:cleman@oo.net">cleman@oo.net</a>			Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Eastlake/Roanoke Park/North Capitol Hill Business Association	Wes Larson	7/1/2007		206-320-9847		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
ECOSS	Allen Rainsberger	7/1/2007	<a href="mailto:ecoss@ecoss.org">ecoss@ecoss.org</a>	767-0432	8201 10th Avenue South, #3 Seattle, WA 98108	Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Fauntleroy and Morgan Junction neighborhoods (Barton and Murray PS)	broad invitation	3/16/2006				D. Theiler, M. Tuttle, K. Huber, A. Franklin		Open House on CSO & AM projects, and Forcemain repair	yes	yes		yes			Huber files P:\CSO Program\ CSO Powerpoints\ King County CSO Control 2006 - Alki 3-16-06 Continuous Strip. ppt Presentation
Fauntleroy and Morgan Junction neighborhoods (Barton and Murray PS)	broad invitation mailed to 7200 homes in the 98136 zip code	6/27/2007				D. Dittmar, M. Tuttle, K. Huber	Project open house brochure	Open House on CSO Beach Projects	yes	yes	yes	yes			Puget Sound Beach CSO project maps and control option posters
Fauntleroy Community Association	Bruce Butterfield	7/1/2007	butternet@aol.com	932-2400		Tuttle	7/07 Alki Project Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Foss Tuggs?						Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Fred Hutchinson Cancer Research Center		7/1/2007	<a href="mailto:srusch@fhcrc.org">srusch@fhcrc.org</a>	206-667-4975	Fred Hutchinson Cancer Research Center J3-300 P.O. Box 19024 Seattle, WA 98109-1024	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Fremont Neighborhood Council	Jenny Eichwald	10/26/2007	fnc@scn.org	675-9918		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Fremont Neighborhood Council	Sheridan Hammond	10/26/2007	fnc@scn.org	675-9918		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Fremont Neighborhood Council	Vafa Ghazi	7/1/2007	fnc@scn.org	675-9918		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Fremont Neighborhood Council	Vafa Ghazi	6/8/2007	fnc@scn.org			J. Phillips	6/29/07 Ship Canal Brochures	Offer Program briefing							offer briefing

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Friends of Discovery Park		7/1/2007				Kauffman	7/07 Magnolia Project Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Friends of Gasworks Park		7/1/2007		(206)878-7391	PO Box 95354 Seattle, WA 98145-2354	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Friends of Lake Union	Carol Anderson/Dave Moore	7/1/2007	Dmoore9456@aol.com	325-5463		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Georgetown Community Council	Kathy Nyland	7/1/2007	directors@georgetownneighborhood.com	N/A		Kauffman	6/29/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

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Georgetown Community Council	Sherrell Ehlers (also with Seattle DPD)	10/26/2006	directors@georgetow nneighborhood.com	N/A		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Ivar's, Inc.	Bob Donegan	7/1/2007		206-587-6500	1001 Alaskan Way Pier 54 Seattle, WA 98104	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
KC Water and Land Division	Jim Simmonds and Science and Technical Group Staff	7/11/07				Huber, Phillips	6/29/07 Duwamish & Ship Canal Brochures								
Kenmore Air?						Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
King County CSO Control Program Stakeholders	72 received invitation in mail; 23 contacted by phone	10/26/2006				Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification

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King County, Industrial Waste	Bruce Tiffany	10/26/2006				Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
King County, Industrial Waste	Bruce Tiffany	7/1/2007				Kauffman	7/01/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
King County, Water and Land	Jonathan Frodge	10/26/2006				Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
King County, Water and Land	Jonathan Frodge	7/1/2007				Kauffman	7/01/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
King County, WRIA 9	Dennis Clark	10/26/2006				Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology



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															pilot, public notification, Team building
King County, WRIA 9	Dennis Clark	7/1/2007				Kauffman	7/01/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Lake Union District Council	Susie Burke	7/1/2007	fremontland@yahoo.com	632-0124		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Laurelhurst Community Club	Jeannie Hale	7/1/2007	jeannieh@serv.net	525-5135		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Loyal Heights Community Council	Jim Anderson	7/1/2007	loyal-heights-cc@hotmail.com	789-3244		Kauffman	7/07 North Beach Project brochure	Provide basic information on CSOs in their area, invite input and	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								involvement in planning							
Magnolia Community Club	Nancy Rogers, President, and board members	6/19/2007	<a href="mailto:nancy.b.rogers@comcast.net">nancy.b.rogers@comcast.net</a>	206-587-0700 (W)	PO Box 99564, Seattle 98130-0564	Dittmar, Kauffman	7/07 Magnolia Project Brochures	Introduce S. Magnolia CSO project	yes			yes			Follow-up with Nancy to discuss how to coordinate with club on public outreach
Magnolia Community Club	Victor Barry	7/1/2007	barryvic@qwest.net	283-1148		Kauffman	7/07 Magnolia Project Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Magnolia Neighborhood Planning Council	Elizabeth A. Campbell	7/1/2007	elizabeth.campbell@magnolianpc.com		Kauffman	7/07 Magnolia Project Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email	
Magnolia Neighborhood Planning Council	Shary Flenniken, Founder	6/2/2007	slavetoherpets@msn.com; info@magnoliapc.com	206-283-9435		Kauffman	7/07 Magnolia Project Brochures	Introduce S. Magnolia CSO project				yes			

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Mid-Puget Sound Fisheries Enhancement Group	Troy Fields	7/1/2007			7400 Sand Point Way NE, Suite 202 North Seattle, WA 98115	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Montlake Community Club	Ken Schubert	7/1/2007	klschubert@glblaw.com	816-1397		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Morgan Community Association (Murray)	Cindy Barker	7/1/2007	cbarker@qwest.net	425-266-2533		Tuttle	7/07 Alki Project Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Morgan Community Association (Murray)	Sigrid Broderson	10/26/2006				Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification

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Muckleshoot Indian Tribe?	Glenn St. Amant	7/1/2007				Kauffman	6/29/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
MWPAAC	MPAAC	4/12/2006				K. Huber		Briefing on CSO Program Review	yes	yes		yes			Huber files P:\CSO Program\CSO Powerpoints\MWPAAC CSO Presentation 4-12-06.ppt
NOAA Fisheries	Phyllis Meyer	10/26/2006				Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
NOAA Fisheries	Phyllis Meyer	7/1/2007				Kauffman	7/01/07 Ship Canal & Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
North Beach Club	David Petre, President	5/16/2007		206-527-2146		Kauffman	7/07 North Beach Project brochure	Introduce N. Beach CSO project ; more details	yes			yes			

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								about nature/sc ope of problem							
North Beach Community Club (JLK TO INTERVIEW – 3/07)	Karen Peterson, Secretary	3/1/2007				Kauffman	7/07 North Beach Project brochure	Provide basic informati on on CSOs in their area, invite input and involvem ent in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Northlake Shipyard	Peter Kelley	7/1/2007	<a href="mailto:nsinc7@qwest.com">nsinc7@qwest.com</a>	206-623-1441	1441 N Northlake Way Seattle, WA 98103	Kauffman	6/29/07 Ship Canal Brochures	Provide basic informati on on CSOs in their area, invite input and involvem ent in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Northwest Kayak Center?						Kauffman	6/29/07 Ship Canal Brochures	Provide basic informati on on CSOs in their area, invite input and involvem ent in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Olympic Manor	Jeff Mendeney, President	3/1/2007	jmenday@sellingseattle.com	369-2818		Kauffman	7/07 North Beach Project brochure	Brief on coming North Beach project	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

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Olympic Sculpture Park	Leila Wilke, Manager	5/8/2007	<a href="mailto:LeilaW@SeattleArtMuseum.org">LeilaW@SeattleArtMuseum.org</a>	206.654.3228	Seattle Art Museum 2901 Western Avenue Seattle, WA 98121	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
People for Puget Sound	Heather Trim	10/26/2006	<a href="mailto:htrim@pugetsound.org">htrim@pugetsound.org</a>	206.382.7005 , immediately hit 215	911 Western Ave, Suite 580 Seattle, WA 98104	Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
People for Puget Sound	Heather Trim	1/4/2007	<a href="mailto:htrim@pugetsound.org">htrim@pugetsound.org</a>	206.382.7005 , immediately hit 215	911 Western Ave, Suite 580 Seattle, WA 98104	K. Huber, J. Phillips	6/29/07 Duwamish & Ship Canal Brochures	Discuss NPDES permit comments and CSO concerns	yes	yes	yes	yes	yes	yes	Huber email Notification Folder 1/18/07; Flyer has "tear off" return mailer, website address, and contact name, phone number and email
People for Puget Sound	Heather Trim, Urban Bays Project Coordinator	5/8/2007	<a href="mailto:htrim@pugetsound.org">htrim@pugetsound.org</a>	(206) 382-7007		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Piper's Creek Watershed Council	Beth Miller, SPU	5/3/2007	<a href="mailto:beth.miller@seattle.gov">beth.miller@seattle.gov</a>	206-386-9154 or 684-7591		Kauffman	7/07 North Beach Project brochure	Brief council on N. Beach CSO project and opportunities for public input, relation	yes			yes			

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								to Carkeek Park							
Ponti Restaurant		7/1/2007		206-284-3000	3014 3rd Avenue North Seattle, WA 98109	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Port of Seattle	David Schaeffer, Assistant Director of Public Affairs	5/8/2007	Schaefer.D@portseattle.org	(206) 728-3000		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Port of Seattle Fisherman's Terminal	Kenny Lyles	6/8/2007	lyles.k@portseattle.org		3919 18th Avenue West Seattle, WA 98119-1679	K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							
Port of Seattle Seaport Environmental Services	Marilyn Guthrie, Stormwater Program Manager	10/26/2006	<a href="mailto:guthrie.m@portseattle.org">guthrie.m@portseattle.org</a>	(206) 728-3378		Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Port of Seattle Seaport Environmental Services	Marilyn Guthrie, Stormwater Program Manager	8/7/2007	<a href="mailto:guthrie.m@portseattle.org">guthrie.m@portseattle.org</a>	(206) 728-3378		Huber, Phillips	6/29/07 Duwamish & Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes	yes	yes	
Port of Seattle Seaport Environmental Services	Peter Ressler	6/8/2007	ressler.p@portseattle.org	(206) 728-3763		K. Huber	6/29/07 Duwamish & Ship Canal	Offer Program briefing							



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							Brochures								
Port of Seattle Seaport Environmental Services	Stephanie Jones, Director	6/8/2007	jones.s@portseattle.org	(206) 728-3818		K. Huber	6/29/07 Duwamish & Ship Canal Brochures	Offer Program briefing							
Port of Seattle Seaport Environmental Services	Stephanie Jones, Director	8/7/2007	jones.s@portseattle.org	(206) 728-3818		Huber, Phillips	6/29/07 Duwamish & Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes	yes	yes	
Portage Bay/Roanoke Park Community Council	Jim Simpkins	7/1/2007	jimsi@exmsft.com	860-0076		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Puget Sound Anglers	Steve Sande	7/1/2007	N/A	425-776-3659		Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Puget Soundkeeper's Alliance	Chris Wilke/Sue Joerger	7/1/2007	suejoerger@pugetsoundkeeper.org	297-7002		Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

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								planning							
Puget Soundkeeper's Alliance	Jennifer Joseph	10/26/2006				Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Queen Anne Community Council	Ellen Monrad	7/1/2007	<a href="mailto:EMonrad@qacc.net">EMonrad@qacc.net</a>	283-7555		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Sammamish Tribe?		7/1/2007				Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle DOT	Pete Lagerwey, Bicycle & Pedestrian Program	5/8/2007	Pete.Lagerwey@Seattle.Gov	<b>206-684-5108</b>	PO Box 34996 Seattle, WA 98124-4996	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Seattle DPD Comprehensive & Regional Planning	Tom Hauger	6/8/2007	tom.hauger@seattle.gov			K. Huber		Offer Program briefing							

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Seattle DPD Comprehensive & Regional Planning	Tom Hauger	7/25/2007	tom.hauger@seattle.gov			K. Huber	6/29/07 Duwamish & Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes	yes		
Seattle DPD Review & Inspections	Sherell Ehlers	6/8/2007	sherell.ehlers@seattle.gov			K. Huber		Offer Program briefing							
Seattle DPD Review & Inspections	Sherell Ehlers	7/25/2007	sherell.ehlers@seattle.gov			K. Huber	6/29/07 Duwamish & Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes	yes		
Seattle Floating Homes Association	Bob Bowman, Chairman Environmental Committee	6/8/2007	bobbowman2@msn.com	FHA Office: (206) 325-1132	FHA Office: 2329 Fairview Ave E Seattle, WA 98102	K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							
Seattle Floating Homes Association	Bob Bowman, Chairman Environmental Committee; Jann McFarland	7/19/2007	bobbowman2@msn.com	FHA Office: (206) 325-1132	FHA Office: 2329 Fairview Ave E Seattle, WA 98102	K. Huber	6/29/07 Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes			Briefing with Environmental subcommittee scheduled 7/19; Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle Marine Business Coalition	Peter Phillips	7/1/2007	peter@RHPPublishing.com	284-8285	2547 Perkins Lane W, Seattle, WA 98199	Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle Maritime Training Center	Bill Zazzo	7/1/2007	bzazzo@sccd.ctc.edu	782-2647	1019 West Ewing Street Seattle, WA 98119	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area,	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number

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								invite input and involvement in planning							and email
Seattle Pacific University Facility Management	Dave Church, Assistant Vice President for Facility Management	6/8/2007	dchurch@spu.edu	(206) 281-2602	3307 3rd Ave W Ste 311 Seattle, WA 98119-1957	K. Huber		Offer Program briefing							6/11/07 Melanie will coordinate meeting
Seattle Pacific University Facility Management	Dave Church, Assistant Vice President for Facility Management	6/27/2007	dchurch@spu.edu	(206) 281-2602	3307 3rd Ave W Ste 311 Seattle, WA 98119-1957	Huber, Phillips	6/29/07 Ship Canal Brochures	Briefing held	yes	yes	yes	yes			
Seattle Pacific University Facility Management	Melanie Whitehead, Coordinator of Campus Planning and Development	6/8/2007	melaniej@spu.edu	(206) 281-2071	3307 3rd Ave W Ste 311 Seattle, WA 98119-1957	K. Huber		Offer Program briefing							6/11/07 Melanie will be on-going contact; interested in WQ information in Ship Canal
Seattle Pacific University Facility Management	Melanie Whitehead, Coordinator of Campus Planning and Development	6/27/2007	melaniej@spu.edu	(206) 281-2071	3307 3rd Ave W Ste 116 Seattle, WA 98119-1922		6/29/07 Ship Canal Brochures	Briefing held	yes	yes	yes	yes			
Seattle Pacific University Media Relations	Tracey Cooper-Norlen	6/27/2007	<a href="mailto:tcnorlen@spu.edu">tcnorlen@spu.edu</a>	(206)281-2977	3307 3rd Ave W Ste 311 Seattle, WA 98119-1957		6/29/07 Ship Canal Brochures	Briefing held	yes	yes	yes	yes			
Seattle Parks	David Graves, Major Projects and Planning	5/8/07	david.graves@seattle.gov	206-684-7048	100 Dexter AV N Seattle, WA 98109	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Seattle Parks	Dewey Potter, Public Information Manager	5/8/07	Dewey.Potter@Seattle.Gov	206-684-7241	100 Dexter AV N Seattle, WA 98109	D. Marsano		Notify about proposed remediation at Denny Way					yes		

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								CSO							
Seattle Parks	Terry Dunning, Real Estate Management	5/8/07	terry.dunning@seattle.gov	206-684-4860	100 Dexter AV N Seattle, WA 98109	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Seattle Public Utilities	Andrew Lee	9/28/2006	andrew.lee@seattle.gov	206-733-9066	P.O. Box 34018 Seattle, WA 98124-4018	Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
Seattle Public Utilities	Andrew Lee	5/30/2007	andrew.lee@seattle.gov	206-733-9066	P.O. Box 34018 Seattle, WA 98124-4018	Puget Sound Beach Team		Beach Project Workshop	yes			yes			
Seattle Public Utilities	Chuck Clarke, Director	5/8/2007	Chuck.Clarke@seattle.gov	206-684-5851	PO Box 34018 Seattle, WA 98124-4018	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Seattle Public Utilities	Jason Sharpley	9/28/2006	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
Seattle Public Utilities	Jason Sharpley	10/26/2006	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
															pilot, public notification
Seattle Public Utilities	Jason Sharpley	1/16/2007	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Phillips, John; Kauffman, Jennifer; Cooper, Betsy, Tuttle, Martha; Kolb-Nelson, Annie		Introduce Notification Program Review							
Seattle Public Utilities	Jason Sharpley	2/13/2007	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Phillips, John; Kauffman, Jennifer; Cooper, Betsy		Review Notification Program			Meeting to review program				not able to attend
Seattle Public Utilities	Jason Sharpley	5/30/2007	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Puget Sound Beach Team		Beach Project Workshop	yes			yes			
Seattle Public Utilities	Jason Sharpley	7/1/2007	jason.sharpley@seattle.gov	(206) 615-0030	P.O. Box 34018 Seattle, WA 98124-4018	Kauffman	7/01/07 Ship Canal & Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle Public Utilities	Judith Noble	5/8/2007	judith.noble@seattle.gov	206-684-8078	PO Box 34018 Seattle, WA 98124-4018	D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
Seattle Public Utilities	Martin Baker, Strategic Advisor	5/8/2007	martin.baker@seattle.gov	206-684-5984	PO Box 34018 Seattle, WA 98124-4018	D. Marsano		Notify about proposed remediation					yes		

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								on at Denny Way CSO							
Seattle Public Utilities	Neil Thibert	9/28/2006	<a href="mailto:neil.thibert@seattle.gov">neil.thibert@seattle.gov</a>		P.O. Box 34018 Seattle, WA 98124-4018	Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
Seattle Public Utilities	Rick Costello	10/26/2006				Huber, Phillips plus many others		Workshop	yes	yes	yes	yes	yes	yes	Program overview; plan review & involvement ops; priorities; intro projects, technology pilot, public notification
Seattle Public Utilities	Rick Costello	7/1/2007				Kauffman	7/01/07 Ship Canal & Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle Vertical World	Adam Pessl	7/1/2007	<a href="mailto:seattle@verticalworld.com">seattle@verticalworld.com</a>		2123 W. Elmore Street Seattle, WA 98199	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email



Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
Seattle Yacht Club		7/1/2007		206-325-1000	1807 East Hamlin St Seattle, WA 98122	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Seattle-King County Health Department	Eileen Hennessy	1/16/2007	eileen.hennessy@metrokc.gov			Phillips, John; Kauffman, Jennifer; Cooper, Betsy, Tuttle, Martha; Kolb-Nelson, Annie		Introduce Notification Program Review							Meeting to initiate review of program
Seattle-King County Health Department	Eileen Hennessy	2/13/2007	eileen.hennessy@metrokc.gov			Phillips, John; Kauffman, Jennifer; Cooper, Betsy		Review Notification Program							Meeting to review program
Seattle-King County Health Department	Eileen Hennessy	6/17/2007	eileen.hennessy@metrokc.gov					Provide link for test real-time website							Huber email Notification Folder 6/7/07
Seattle-King County Health Department	Eileen Hennessy	6/17/2007	eileen.hennessy@metrokc.gov			K. Huber	6/29/07 Duwamish & Ship Canal Brochures	offer briefing to agency staff	yes	yes	yes	yes	yes		Huber email Notification Folder 6/7/07; Briefing to be scheduled in Sept. after their office relocation is completed.
Shilshole Liveaboard Association	Al Hughes	7/1/2007	louise@shilshole.com	784-7926		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								their area, invite input and involvement in planning							contact name, phone number and email
South Lake Union Friends & Neighbors Community Council	Ed Geiger	7/1/2007	webmaster@slufan.org	622-6960		Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
South Park Community Council	Sue Kershaw	7/1/2007	N/A	684-7451		Kauffman	6/29/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Stonegardens	Bruce Andresen	7/1/2007	<a href="mailto:bruceandresen@stonegardens.com">bruceandresen@stonegardens.com</a>	206-781-9828	2839 NW Market St. Seattle, WA 98107	Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Suquamish Tribe	Tom Ostrom	10/26/2006				Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects,

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
															technology pilot, public notification, Team building
Suquamish Tribe	Tom Ostrom	7/1/2007				Kauffman	7/01/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Uptown Alliance	Keith Bieber, Board member (Parks)	5/8/2007	bieber36@comcast.net	206.733.9435		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
US EPA	Eva Chun , Kris Flint, Lisa Olson	10/26/2006				Huber, Phillips plus many others		Internal WTD CSO Workshop	yes	yes	yes	yes	yes	yes	Program overview & status; Next Beach projects, technology pilot, public notification, Team building
US EPA	Eva Chun , Kris Flint, Lisa Olson	7/1/2007				Kauffman	7/01/07 Duwamish Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
UW Arboretum	Carrie M. Cone, head of administration	6/8/2007	cmcone@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
															meeting(s)
UW Arboretum	David J. Mabberley, director	6/8/2007	davidjm@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Arboretum	David Zuckerman, WPA grounds supervisor	6/8/2007	dzman@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Arboretum	Fred Hoyt, manager Gardens, Greenhouses, and Grounds	6/8/2007	fhoyt@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Arboretum	Kern Ewing, manager Union Bay Natural Area	6/8/2007	kern@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Capital and Space Planning Office	Colleen Pike, Director	6/8/2007	cpike@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Environmental Health and Safety	Karen A. VanDusen, director	6/8/2007	kav@u.washington.edu			K. Huber		Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW Environmental Health and Safety	Karen A. VanDusen, director	7/19/2007	kav@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Briefing scheduled	yes	yes	yes	yes	yes	yes	
UW Facilities	Charles Kennedy		<a href="mailto:kennec@u.washington.edu">kennec@u.washington.edu</a>			Kauffman		Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
UW Facilities -- campus operations	John Chapman		<a href="mailto:jchapman@u.washington.edu">jchapman@u.washington.edu</a>			Kauffman		Provide basic information on CSOs in their	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name,

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								area, invite input and involvement in planning							phone number and email
UW Marine Affairs	Thomas Leschine	6/8/2007	tml@u.washington.edu			J. Phillips	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW School of Aquatic and Fishery Sciences	send to general email		<a href="mailto:safdesk@u.washington.edu">safdesk@u.washington.edu</a>			Kauffman		Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
UW School of Aquatics and Fisheries Science (SAFS)	David Armstrong	6/8/2007	davearm@u.washington.edu	206-543-4270	University of Washington School of Aquatic and Fishery Sciences Box 355020 Seattle, WA 98195-5020	J. Phillips	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW school of Oceanography	Russell McDuff	6/8/2007	mcduff@ocean.washington.edu	206-543-5060	School of Oceanography Box 357940 University of Washington Seattle, WA 98195-7940	J. Phillips	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
UW School of Oceans & Fisheries	Andrea Ogston, Associate Professor	5/8/2007	Ogston@ocean.washington.edu	206.543.0768		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
UW School of Oceans & Fisheries	Jason Toft, Research Ecologist	5/8/2007	<a href="mailto:toftj@u.washington.edu">toftj@u.washington.edu</a>	206.221.5460		D. Marsano		Notify about proposed remediation at Denny Way CSO					yes		
UW South Campus Center	Jane Matteson, manager	6/8/2007	matteson@u.washington.edu			K. Huber	6/29/07 Ship Canal Brochures	Offer Program briefing							6/12 Karen A. VanDusen will coordinate meeting(s)
WA Health Dept. Shellfish Program	Mark Toy, P.E., R.S.	7/1/2007	mark.toy@doh.wa.gov	(360) 236-3321	Office of Shellfish and Water Protection Division of Environmental Health Washington Department of Health P.O. Box 47824, Olympia WA 98504-7824	Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Washington Kayak Club	Tim Walsh	7/1/2007	webmaster@washingtonkayakclub.org	N/A		Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email
Waste Action Project	Greg Wingard	7/1/2007	N/A	261-2670		Kauffman	6/29/07 Duwamish & Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email

Organization Contacted	Person(s) contacted	Date Contacted	Email Address	Phone Number	Mailing Address	County Staff Involved	Mailing/ emailing of brochure	Purpose	Program Info	CSO Plan Update Info	Public Notification Info	Capital Project Info	Sediment Remed. & Source Control	Treatment Pilot	Comments
								involvement in planning							
Wooden Boat Center?						Kauffman	6/29/07 Ship Canal Brochures	Provide basic information on CSOs in their area, invite input and involvement in planning	yes	yes	yes	yes			Flyer has "tear off" return mailer, website address, and contact name, phone number and email





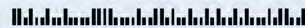
## BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 168 SEATTLE WA

POSTAGE WILL BE PAID BY ADDRESSEE

ATTN: JENNIFER KAUFFMAN  
KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS  
WASTEWATER TREATMENT DIVISION  
MS/KSC-NR-0505  
201 S JACKSON ST  
SEATTLE WA 98104-9887

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UNITED STATES



# Combined Sewer Overflow Control Program

*Protecting water quality in the Duwamish Waterway*



King County oversees a regional system that treats wastewater for about 1.4 million people and covers 420 square miles in the Puget Sound region.



*Cleaning up historic pollution near CSO outfalls is ongoing*

Along the Duwamish Waterway, there are 13 King County managed CSO outfall locations.

Soon you'll be able to check current overflow conditions on the Internet!

### During heavy rains, wastewater and stormwater enter the Duwamish Waterway through "CSOs"

Like many cities around the country, parts of Seattle's wastewater system carries both wastewater and stormwater. The system is called a "combined" sewer system. When stormwater fills the combined sewer system beyond its capacity, excess stormwater and sewage flow directly into local water bodies. These discharges are called "combined sewer overflows" or CSOs. While diluted, these overflows may contain chemicals and disease-causing pathogens.

To protect public health and the environment, King County is reducing combined sewer overflows into Puget Sound, Lake Union and the Ship Canal, and the Duwamish Waterway. King County and the City of Seattle share management of CSOs based on the size of the drainage basin served by each CSO outfall. The City of Seattle also has CSOs and a plan to control them.



*Michigan Street CSO*



*Norfolk CSO*

Yes, I would like to know more about the King County CSO Program.





**BUSINESS REPLY MAIL**

FIRST-CLASS MAIL PERMIT NO. 168 SEATTLE WA

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ATTN: JENNIFER KAUFFMAN  
KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS  
WASTEWATER TREATMENT DIVISION  
MS/KSC-NR-0505  
201 S JACKSON ST  
SEATTLE WA 98104-9887



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IF MAILED  
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UNITED STATES



# Combined Sewer Overflow Control Program

*Protecting water quality in the Ship Canal*



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## During heavy rains, wastewater and stormwater enter the Ship Canal through "CSOs"

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To protect public health and the environment, King County is reducing combined sewer overflows into Puget Sound, Lake Union and the Ship Canal and the Duwamish Waterway. King County and the City of Seattle share management of CSOs based on the size of the drainage basin served by each CSO outfall. The City of Seattle also has CSOs and a plan to control them.



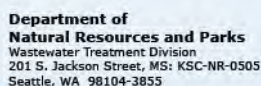
Along the Ship Canal, there are seven King County managed CSO outfall locations.

Soon you'll be able to check current overflow conditions on the Internet!

3rd Ave West CSO

University CSO

Yes, I would like to know more about the King County CSO Program.

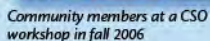
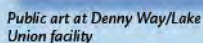


For more information check out our Web site at  
<http://dnr.metrokc.gov/WTD/cso/>

Alternative Formats on request

206-684-1280 TTY Relay 711

Combined sewage storage tunnel  
under Mercer Street



Since the mid-1970s, King County has worked to reduce the number of CSO events to an average of one a year at each outfall by 2030, as required by state and federal rules. King County's CSO reduction plan is working – CSO volumes have been cut 60 percent since 1988 and some CSOs are fully controlled, which means they have no more than one overflow event per year. There are a number of ways King County can control CSOs, including:

1. Get more flow to the West Point Treatment Plant in Seattle by:
  - Improving operations of the conveyance pipe system using the latest technologies
  - Adding storage tanks and tunnels to increase the capacity of the conveyance pipe system
2. Build local CSO treatment facilities that treat the CSO before it is released to the environment.
3. Control stormwater before it enters sewer pipes to reduce the peak amount of water entering the pipes and prevent overflows during storms.

2005	2006	2007	2008	2009	2010
Denny Way/Lake Union and Henderson/ ML King CSO control projects completed		Four CSO Puget Sound beach projects begin	A CSO control plan will be issued to report progress and improved public notification	King County will review priorities for the last 16 CSO control projects in the Ship Canal and the Duwamish Waterway	

- Learn more on our Web site at: <http://dnr.metrokc.gov/wtd/cso>
- Request a briefing for your group or organization and join our mailing list by filling out the card below, or contacting Jennifer Kauffman at [Jennifer.kauffman@metrokc.gov](mailto:Jennifer.kauffman@metrokc.gov) or (206) 263-6029
- Get involved now to help shape future decisions about priorities for the timing of specific CSO control projects